# XR-7162

# SERVICE MANUAL

*West Germany Model*

| | |
|---|---|
| Model Name Using Similar Mechanism | XR-7200 |
| Tape Transport Mechanism Type | MG-55A-31 |

## SPECIFICATIONS

**Power amplifier section**

Outputs: Speaker outputs (sure seal connectors)
Speaker impedance: 4 – 8 ohms
Maximum power output: 25W + 25W (at 4 ohms)*
*Measured at 14.4V

**Cassette player section**

Tape track: 4-track 2-channel stereo
Frequency response: 30 – 18,000 Hz

Signal-to-noise ratio

| Cassette type | Dolby B | Dolby C | Dolby off |
|---|---|---|---|
| TYPE II, IV | 66 dB | 76 dB | 58 dB |
| TYPE I | 63 dB | 73 dB | 55 dB |

Wow and flutter: 0.1% (WRMS)

**Tuner section**

**FM**

Tuning range: 87.5 – 108.0 MHz
Antenna terminal: External antenna connector
Intermediate frequency: 10.7 MHz
Usable sensitivity: 12 dBf (75 ohms)
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 65 dB (stereo), 70 dB (mono)
Harmonic distortion at 1 kHz: 0.5% (stereo), 0.3% (mono)
Separation: 35 dB at 1 kHz
Frequency response: 30 – 15,000 Hz
Capture ratio: 2.0 dB

**AM**

Tuning range: 531 – 1,602 kHz
Antenna terminal: External antenna connector
Intermediate frequency: 450 kHz
Sensitivity: 35μV

**General**

Output lead: Line output connector
Remote control output lead (for auxiliary input)
Amplifier remote control lead
DK output lead
Power antenna relay control lead

Input lead: Line input connector (for connecting a graphic equalizer)
Auxiliary input connector
Equalizer control input lead
Remote control input lead (for auxiliary input)

Tone controls: Bass ±10 dB at 100 Hz
Treble ±10 dB at 10 kHz

Loudness: +10 dB at 100 Hz
+6 dB at 10 kHz

Power requirements: 12 V DC car battery (negative ground)

Dimensions (without bracket): Approx. 178 × 50 × 165 mm (w/h/d)
not incl. projecting parts and controls

— Continued on page 2 —

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

## FM/AM CASSETTE CAR STEREO

SONY®

| | |
|---|---|
| Mounting dimensions (with bracket) | Approx. 182 × 53 × 145 mm (w/h/d) not incl. projecting parts and controls |
| Weight | Approx. 1.9 kg |
| Accessories supplied | Mounting hardware (1 set) |

Design and specifications subject to change without notice.

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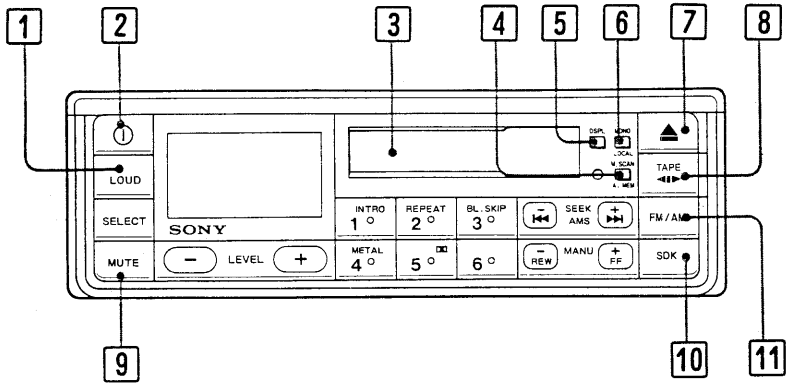
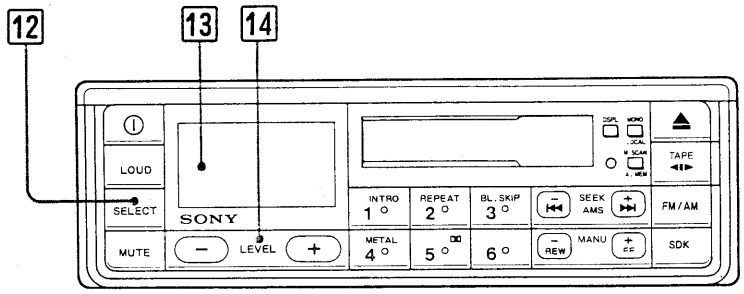
# Location and Function of Controls




**Refer to the page in ● for details.**

1 **LOUD (loudness) button**
Press to reinforce bass and treble especially when listening at low volume. To disengage the button, press it again.

2 **⏻ (power on/off) switch**
Press to turn on and off the unit.

3 **Cassette insertion door**

4 **M. SCAN (memory scan)/A. MEM (automatic memory) button**

5 **DSPL (display) button**

6 **MONO (monaural)/LOCAL select button**

7 **⏏ (eject) button**

8 **TAPE/◀▮▶ (tape playback/transport direction change) button**

9 **MUTE button**
Press to momentarily mute the sound. Press again to restore the same sound level as before.

10 **SDK button**

11 **FM/AM select button**

12 **SELECT (control mode select) button**
Press to select the desired mode, BAS (bass), TRE (treble), BAL (balance), FAD (fader), or VOL (volume).

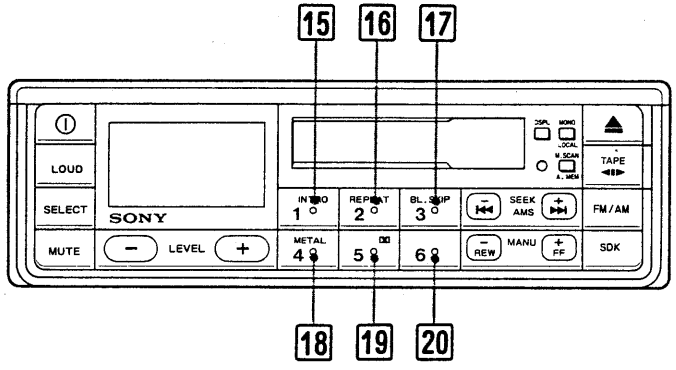
13 **Display window**

14 **LEVEL (volume/tone/balance control) button**
LEVEL button normally functions as the volume control. Adjust the level within three seconds after selecting the desired control mode. Otherwise, the mode goes back to the volume control mode.

| Display window | Control mode | (−) LEVEL (+) LEVEL | |
|---|---|---|---|
| | | Press (−) | Press (+) |
| BAS | Bass control | For less bass | For more bass |
| TRE | Treble control | For less treble | For more treble |
| BAL | Balance control | To decrease the right-speaker volume | To decrease the left-speaker volume |
| *FAD | Fader control | To decrease the rear-speaker volume | To decrease the front-speaker volume |
| VOL | Volume control | For less volume | For more volume |

*When a graphic equalizer is connected, FAD mode will be skipped.

## Location and Function of Controls

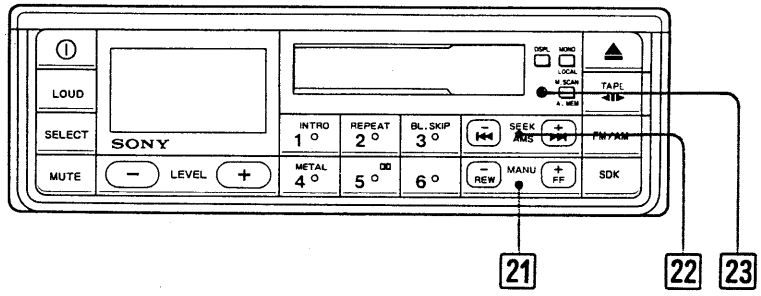



| | During tape playback | During radio reception |
|---|---|---|
| 15 | INTRO button | Preset number buttons |
| 16 | REPEAT button | |
| 17 | BL. SKIP (blank skip) button | |
| 18 | METAL button | |
| 19 | □□ button | |
| 20 | — | |

**When you turn on the light switch of the car**
The display becomes dimmer than before. If you want to keep it bright, press preset number 4 button while pressing SELECT. To make it dimmer again, press these buttons again.

**To mute the beep sound**
Press preset number 6 button while pressing SELECT. To obtain the beep sound again, press these buttons again.

**Note:** Intro play and repeat play will be cancelled when you press ⏻ button or when you keep the ignition key set to the off position.




| | During tape playback | During radio reception |
|---|---|---|
| 21 | FF/REW (fast forward/rewind) button | MANU (manual tuning) button |
| 22 | AMS* button | SEEK (automatic tuning) button |

23 **Reset button**
Press this button when no other button functions.

*Automatic Music Sensor

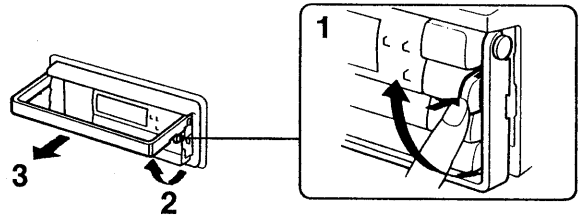
# Installation/Installation

### Precautions

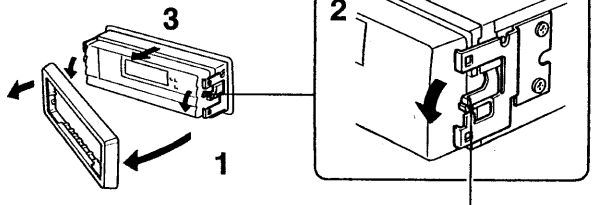
- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it should be subject to high temperatures, such as from direct sunlight or from hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

### To Remove the Unit

**When installed with the carrying handle**



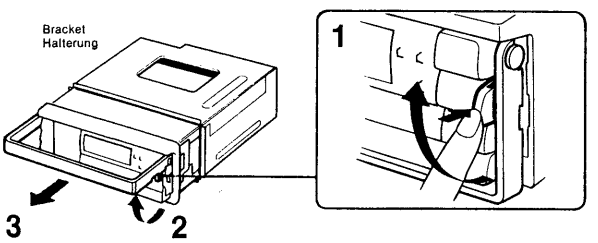

**When installed without the carrying handle**



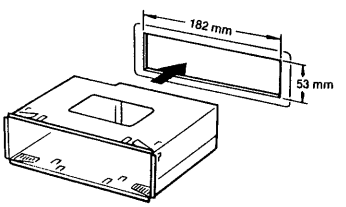

**To prevent the unit from being stolen**
When you leave your car, remove the unit from the bracket and take it away with you.

Press down the silver part slightly not to break down

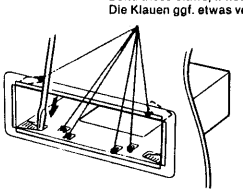
## 1 Remove the unit from the bracket.
## Nehmen Sie das Gerät aus der Halterung.



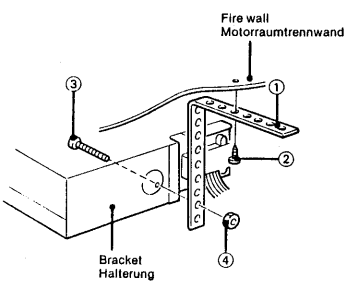

## 2 Install the bracket in the dashboard.
## Setzen Sie die Halterung in das Armaturenbrett ein.



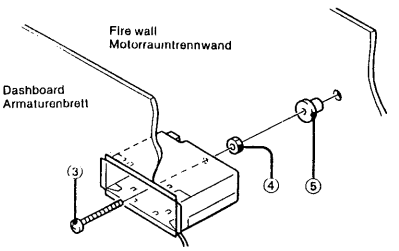

Bend these claws, if necessary.
Die Klauen ggf. etwas verbiegen.



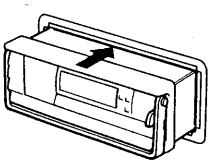
**Example 1**
**Beispiel 1**




**Example 2**
**Beispiel 2**

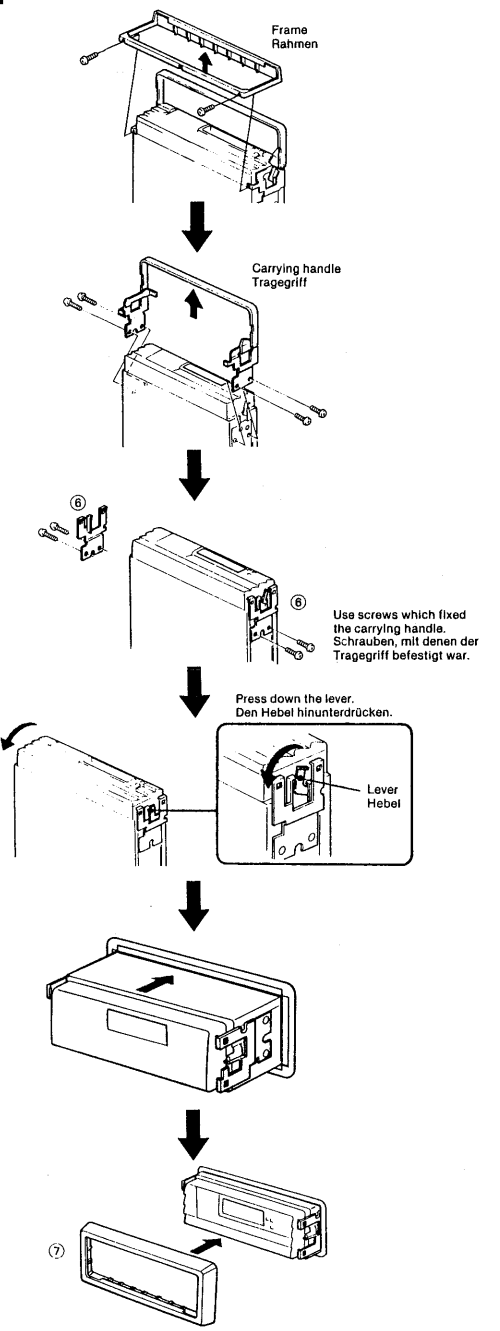



## 3A When installing the unit with the carrying handle
## Bei mit Tragegriff eingesetztem Gerät



Push in the unit until it is locked firmly.
Das Gerät einschieben, bis es sicher einrastet.

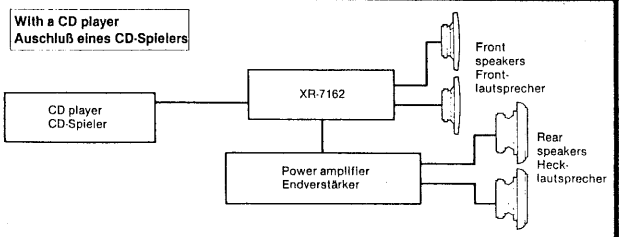
## 3B When installing the unit without the carrying handle
## Bei ohne Tragegriff eingesetztem Gerät



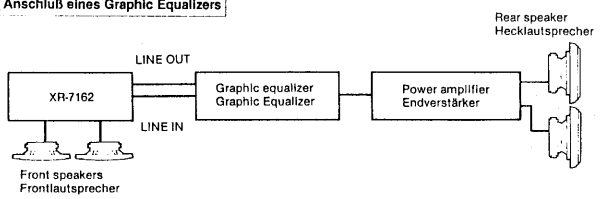
## Connections / Anschluß

### System Connection / System-Anschluß

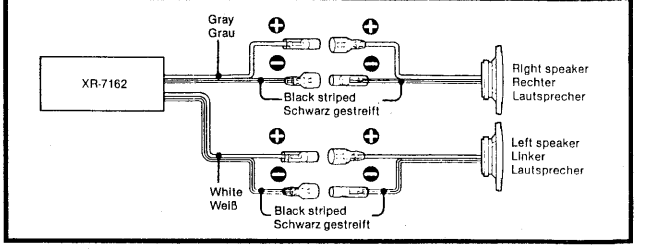
**With a CD player**
**Auschluß eines CD-Spielers**




**With a graphic equalizer**
**Anschluß eines Graphic Equalizers**




### Speaker Connection / Lautsprecheranschluß




**Notes on speaker connection**

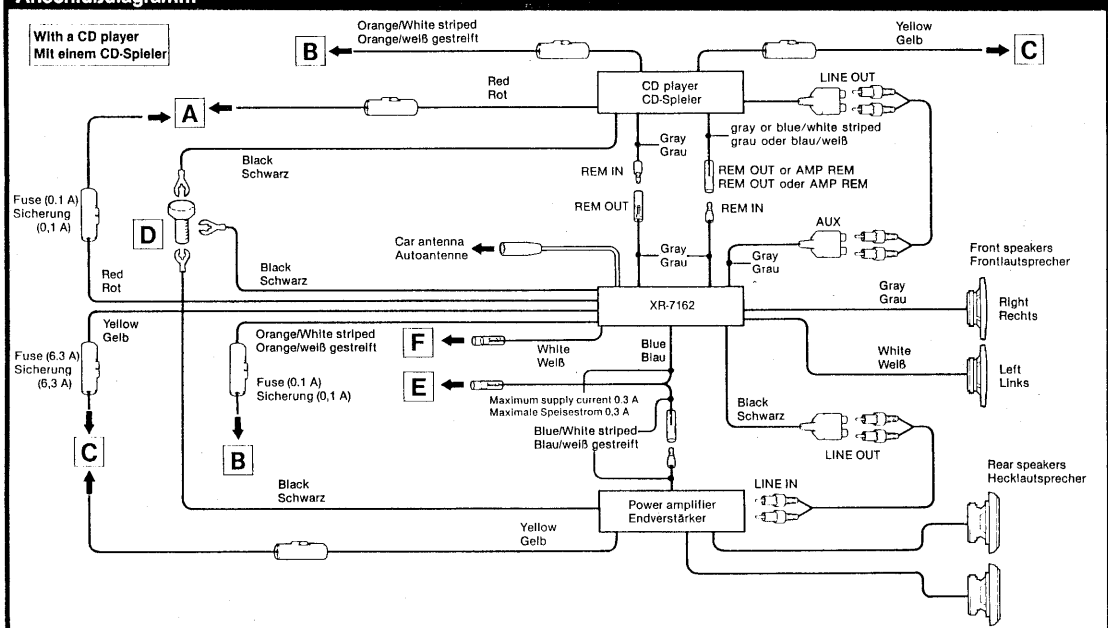
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not attempt to connect the speakers in parallel.

**Hinweise zum Lautsprecheranschluß**

- Verwenden Sie Lautsprecher mit einer Impedanz zwischen 4 und 8 Ohm und ausreichender Nennleistung, um eine Beschädigung zu vermeiden.
- Verbinden Sie die Lautsprecher nicht mit dem Wagenchassis, und verwenden Sie auch kein gemeinsames Kabel für beide Lautsprecher.
- Schalten Sie keine Lautsprecher parallel.

## Connection Diagram
## Anschlußdiagramm

**With a CD player**
**Mit einem CD-Spieler**




**A** to the + 12 V power terminal which is energized in the accessory position of the ignition key

**B** to the + 12 V lighting control lead

**C** to the + 12 V power terminal which is energized at all times

**D** to a metal part of the car

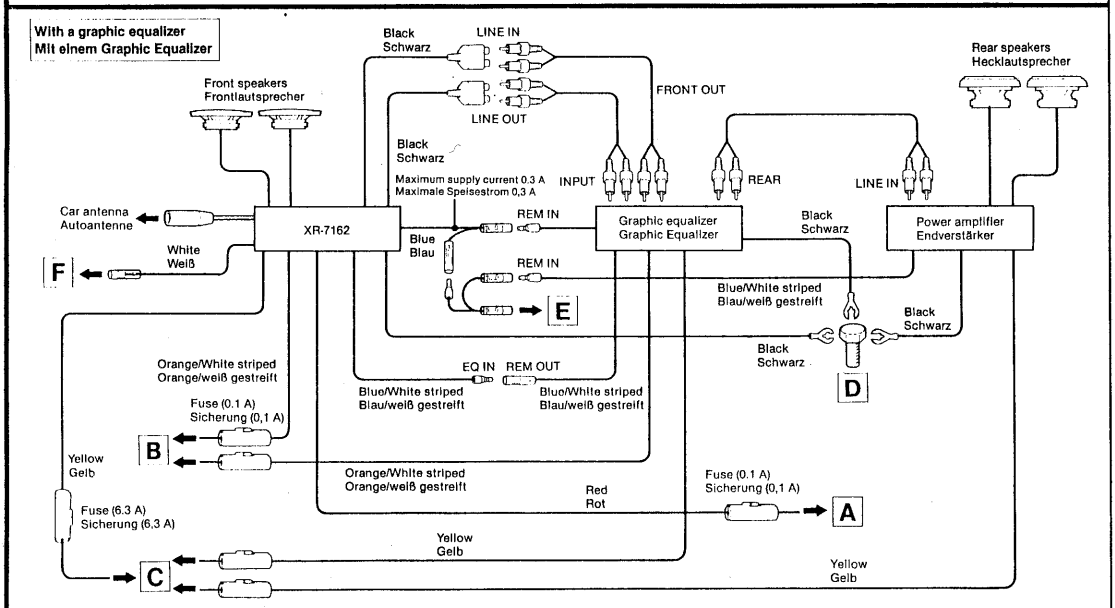
**E** to power antenna relay control box

**F** to the DK input of a Sony auxiliary equipment, so that the equipment enters pause or stop mode when a traffic information program is received

**Note:** A power antenna without relay box cannot be used with this unit. For details about the power antenna, refer to the power antenna instruction manual.

After completing the connections, press the reset button of this unit.

**With a graphic equalizer**
**Mit einem Graphic Equalizer**




**A** An einen + 12 V Kontakt des Bordnetzes, der bei eingeschalteter Zündung (oder in der Zubehörposition) unter Strom steht.

**B** An + 12 V Kontakt der Lichtleitung

**C** An einen + 12 V Kontakt des Bordnetzes, der immer unter Strom steht.

**D** An ein Metallteil des Wagens

**E** An Motorantennen-Relaisbox

**F** An den DK-Eingang eines Sony Sonderzubehörgeräts, so daß das betreffende Gerät bei einer Verkehrsfunkdurchsage in die Pausen- oder Stopp-Funktion schaltet.

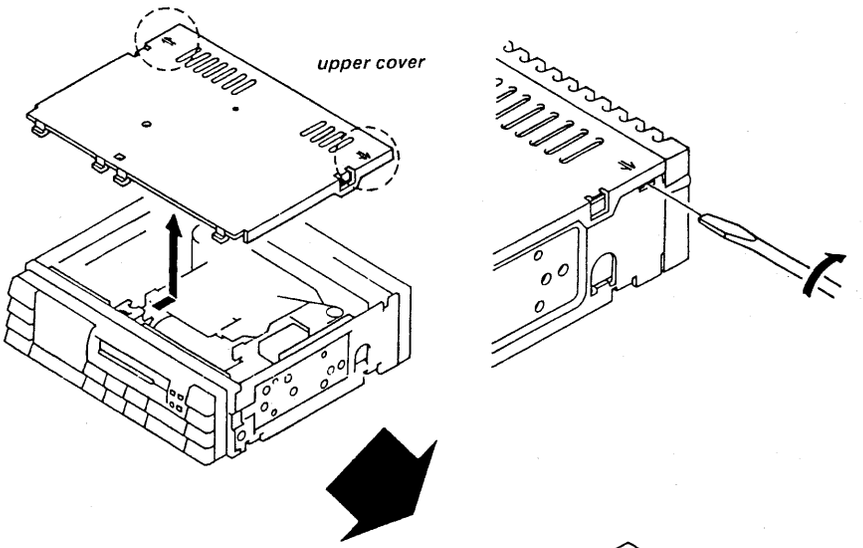
**Hinweis:** An dieses Gerät kann nur eine mit Relaisbox ausgestaltete Motorantenne angeschlossen werden. Genaueres entnehmen Sie bitte der bei der Motorantenne mitgelieferten Anleitung.

Drücken Sie nach dem Herstellen aller Anschlüsse die Rückstelltaste des Geräts.

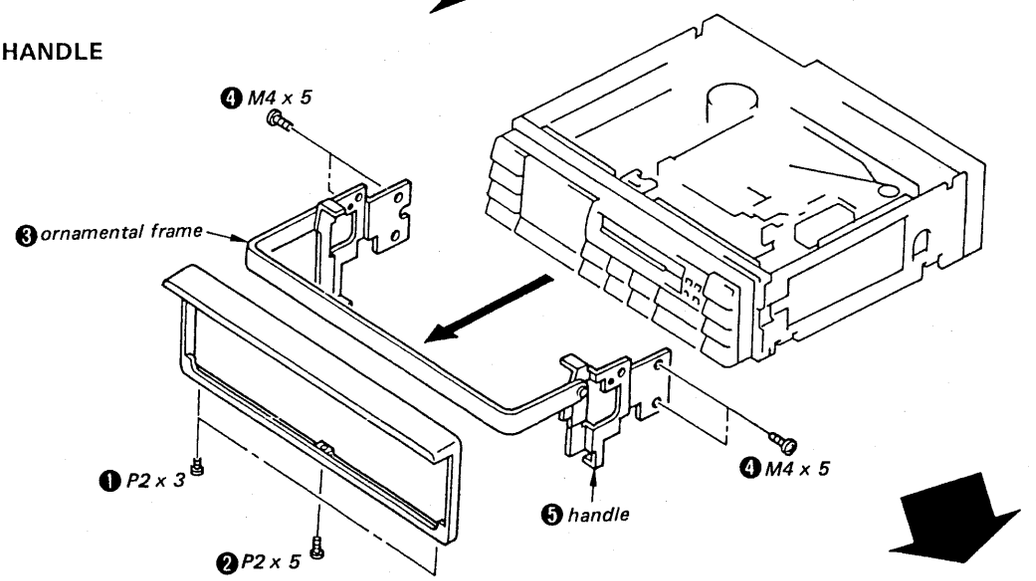
# SECTION 2
# DISASSEMBLY

**Note:** Follow the disassembly procedure in the numerical order given.

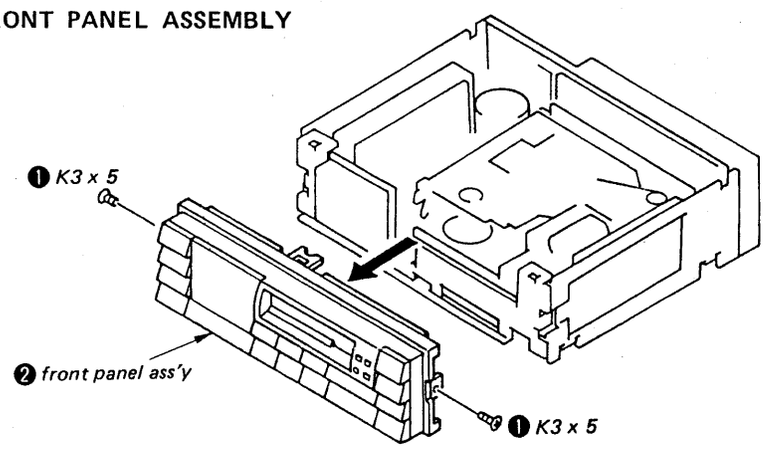
**UPPER COVER** *Remove the upper cover by inserting such as screw drivers in two portions as following figure. (Similarly the lower cover.)*



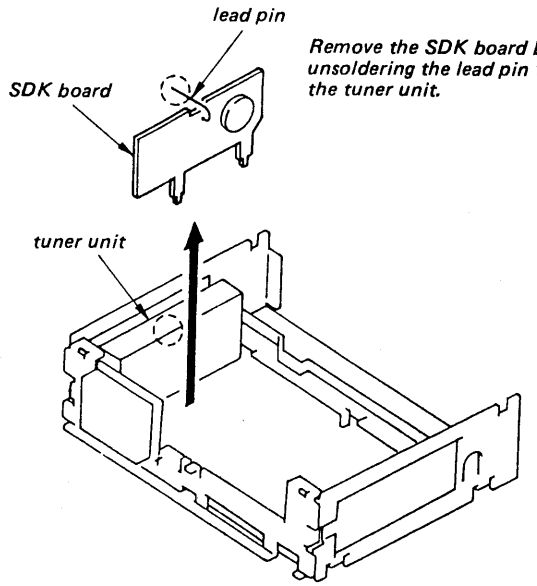

**HANDLE**



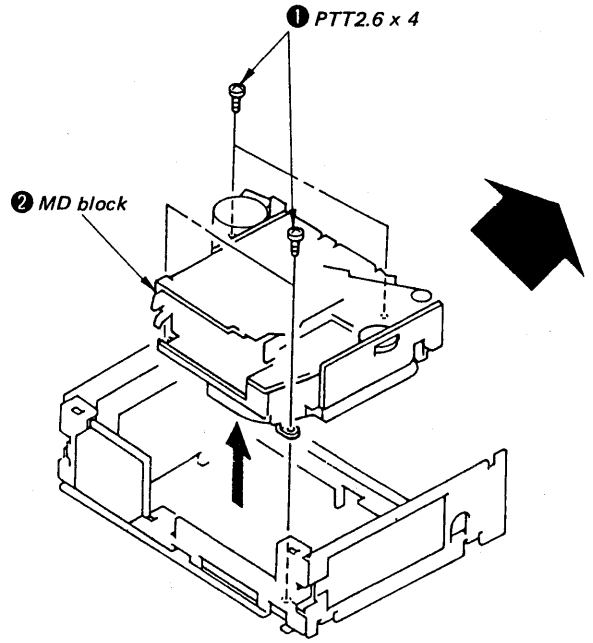

**FRONT PANEL ASSEMBLY**



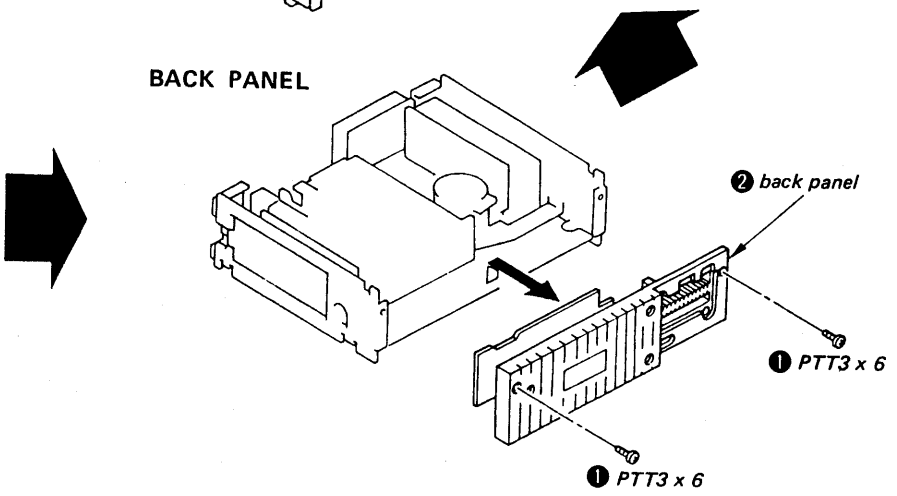
## SDK BOARD




## MD BLOCK




## BACK PANEL



# SECTION 3
# ADJUSTMENTS

## 3-1. MECHANICAL ADJUSTMENT

### PRECAUTION

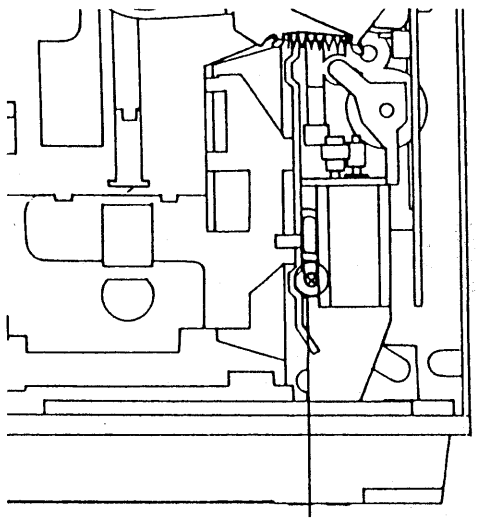
1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before adjustment:
   PB head — Pinch roller
   Idler — Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4 V).

### Torque Measurement

Measure the torque at a supply voltage of 14.4 V DC.

| | Torque meter | Meter reading |
|---|---|---|
| FWD | CQ-102C | 25 to 55 g·cm (0.35 to 0.77 oz·inch) |
| FF, REW | CQ-210B | 55 to 150 g·cm (0.77 to 2.1 oz·inch) |
| Back tension | CQ-102C | 1.5 to 4 g·cm or less (0.02 to 0.05 oz·inch or less) |

**Adjustment Location:**



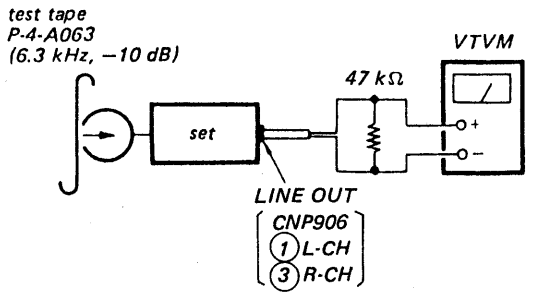

## 3-2. ELECTRICAL ADJUSTMENTS

DECK SECTI

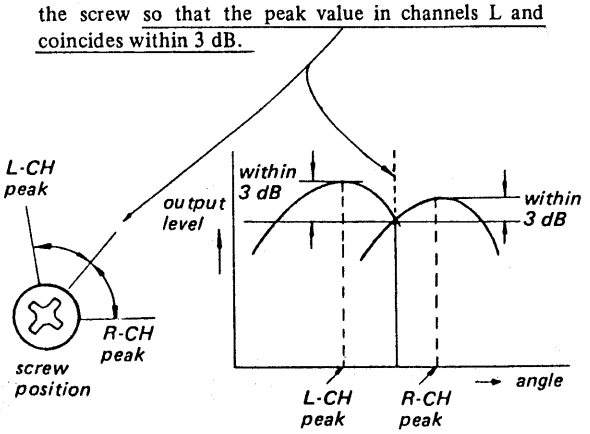
### PB Head Vertical Adjustment

**Proceudre:**

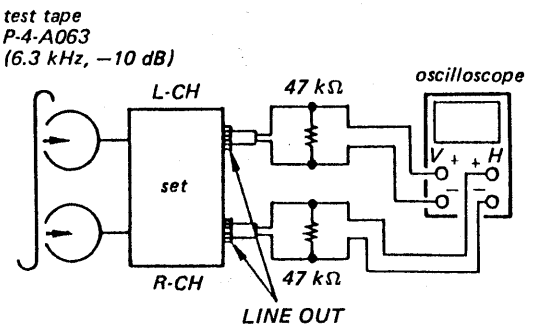
1. Put the set into the FWD PB mode.

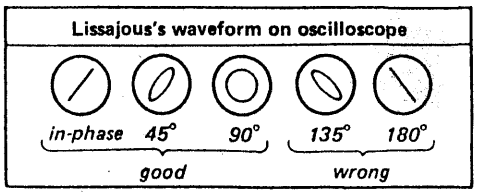



2. Turn the screw and check the output peak value. Adjust the screw so that the peak value in channels L and coincides within 3 dB.




3. Check the phase in the PB mode.



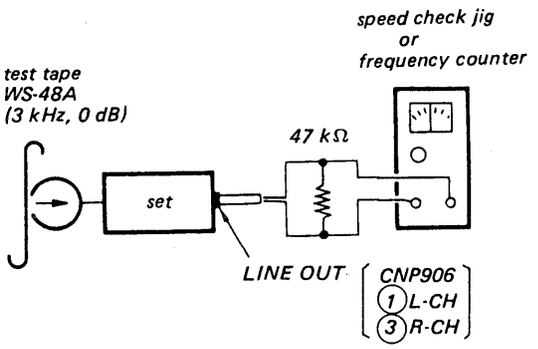




4. Repeat the above adjustment for the PB REV mode.

## Capstan Motor Tape Speed Adjustment

**Procedure:**

1. Put the set into the FWD PB mode.

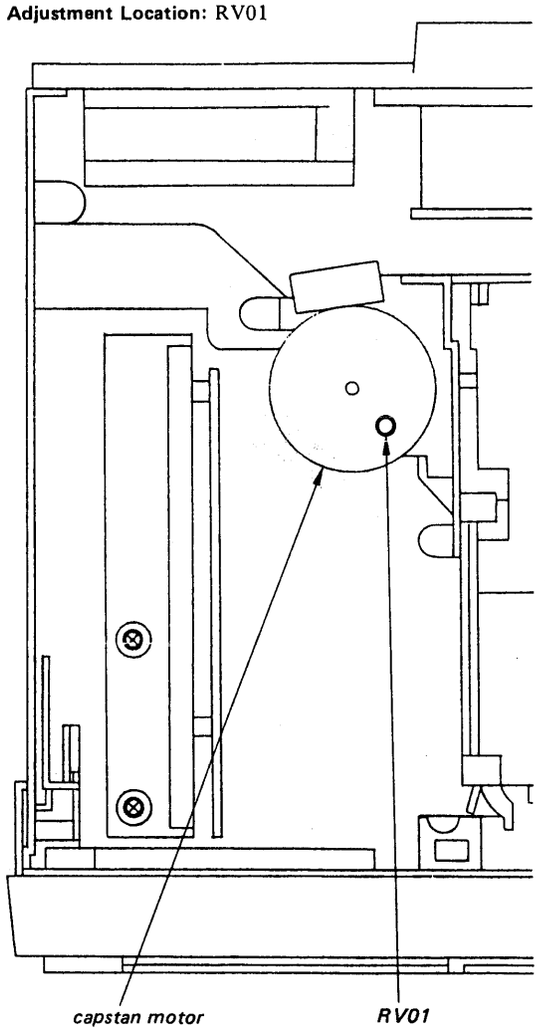



**Specification:** Constant speed

| Speed check jig | Frequency counter |
|---|---|
| −1.5 to +2.5% | 2,955 to 3,075 Hz |

Adjust so that the frequency difference between the FWD and REV modes is within 1.5% (45 dB).

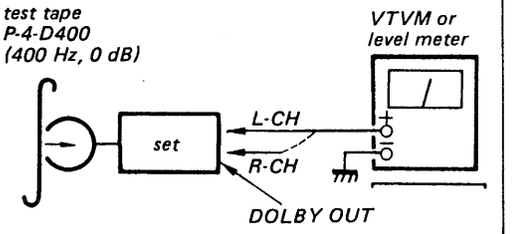
**Adjustment Location:** RV01




## DOLBY NR Level Adjustment

**Setting:**

DOLBY NR switch: OFF
METAL switch: OFF

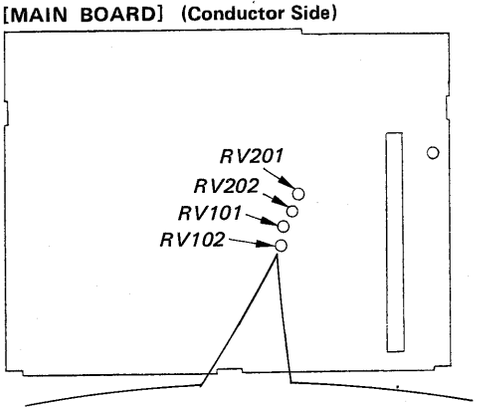


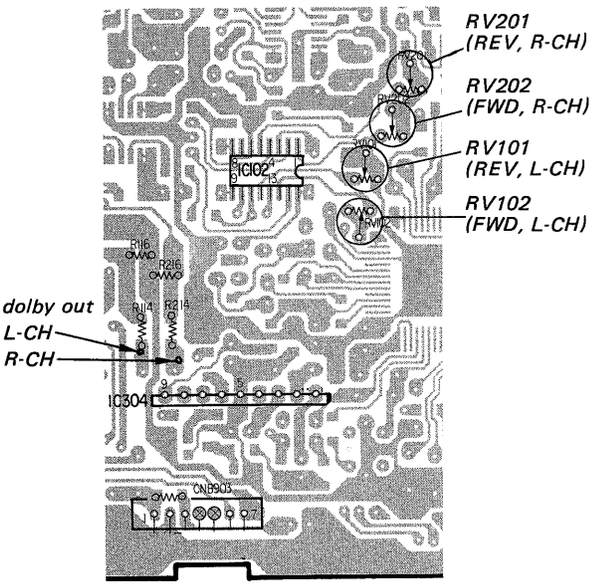

**Procedure:**

1. Put the set into the FWD PB mode.
2. Adjust RV102 (L-CH) and RV202 (R-CH) so that VTVM reading is −4 ±0.3 dB.
3. Put the set into the REV PB mode.
4. Adjust RV101 (L-CH) and RV201 (R-CH) so that VTVM reading is −4 ±0.3 dB.
   (−4 ±0.3 dB: approx. 0.51 to 0.47 V)

**Adjustment Location:** dolby board

**[MAIN BOARD] (Conductor Side)**



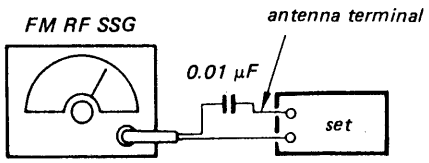



## TUNER SECTION

**Cautions during repair**
When the front end is defective, replace it by a new one because its internal block is difficult to repair.

### FM Auto Scan/Stop Level Adjustment

**Setting:**
Band switch: FM
MONO switch: ON
Frequency: 98.0 MHz



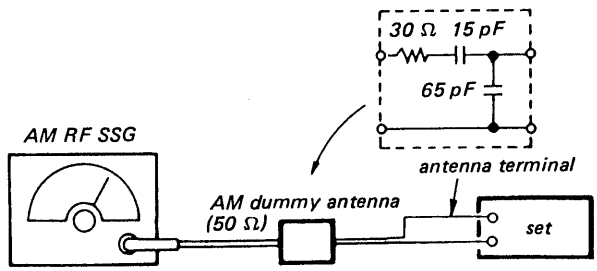

*Carrier frequency: 98.0 MHz*
*Output level: 60 dB (1 mV) 28 dB (25 V)*
*Mode: mono, unmodulated*

**Procedure:**
1. Tune in 98.0 MHz.
2. Adjust RV02 so that the VOM reading changes from low to high (5 V reference voltage).
3. When the FM RF SSG's output level is 28 ±4 dB check that the auto scan is stopped.

### AM Auto Scan/Stop Level Adjustment

**Note:** This adjustment should be made after FM auto scan stop level adjustment is completed.

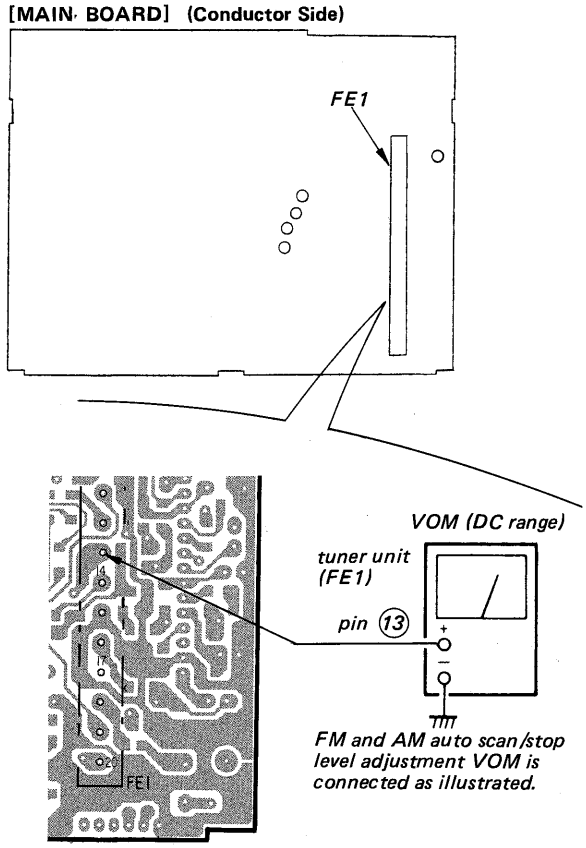
**Setting:**
Band switch: AM
Frequency: 999 kHz

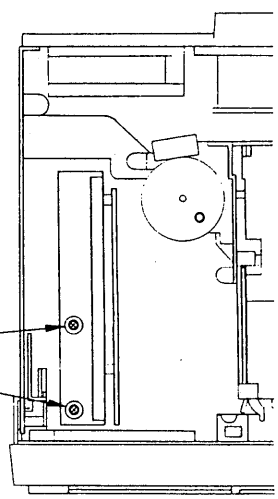



*999 kHz, 60 dB (1 mV),*
*33 dB (44.7 μV)*
*no modulation*

**Procedure:**
1. Tune in 999 kHz.
2. Adjust RV03 so that the VOM reading changes from low to high (5.6 V reference voltage).
3. When the AM RF SG's output level is 35 ±5 dB, check that the auto scan is stopped.

**[MAIN BOARD] (Conductor Side)**

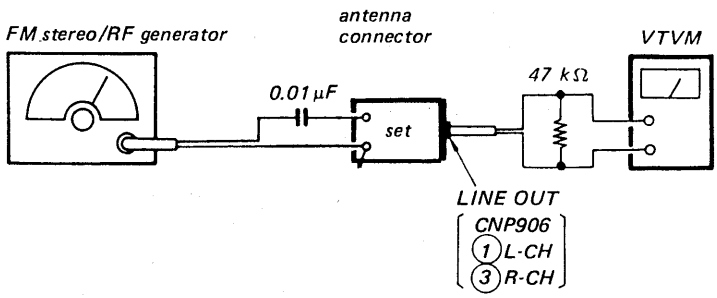


## FM Stereo Separation Adjustment

**Setting:**

Band switch: FM
Frequency: 97.9 MHz




*Carrier frequency: 97.9 MHz*
*Output level: 60 dB (1 mV)*
*Modulation: main; 1 kHz 33.75 kHz deviation*
*sub; 1 kHz, 33.75 kHz deviation*
*19 kHz pilot; 7.5 kHz deviation*

**Procedure:**

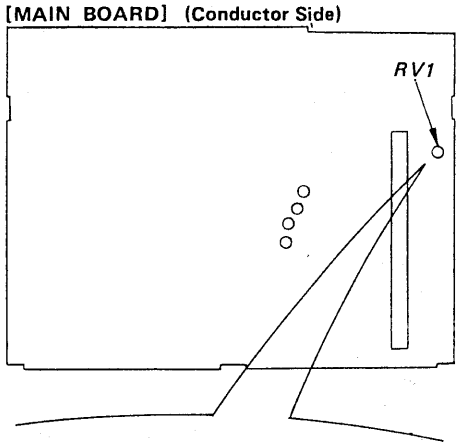
1. Adjust RV1 for a best stereo separation at a LINE OUT level of approximately 0 dB.
   More than 35 dB is good.

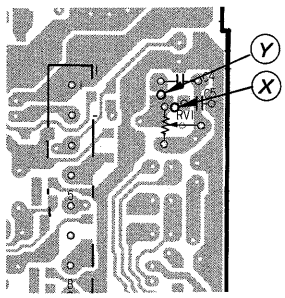
| FM stereo signal generator output channel | VTVM connection | VTVM reading (dB) |
|---|---|---|
| L-CH | L-CH | (A) |
| R-CH | L-CH | (B) Adjust RV1 for minimum reading. |
| R-CH | R-CH | (C) |
| L-CH | R-CH | (D) Adjust RV1 for minimum reading. |

   L-CH Stereo separation: (A) – (B)
   R-CH Stereo separation: (C) – (D)
   The separations of both channels shoul be equal.
2. If the result is not enough, make a solder bridge at (X) position and step back to proceduer 1.
3. If the result is still not good even with the bridge (X), make one at (Y) position in place of (X) and step to procedure 1. again.

**Adjustment Location:**

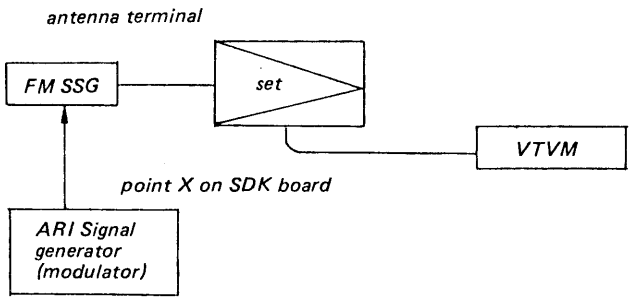
**[MAIN BOARD] (Conductor Side)**



## ARI Level Adjustment

**Setting:**
Band switch: FM

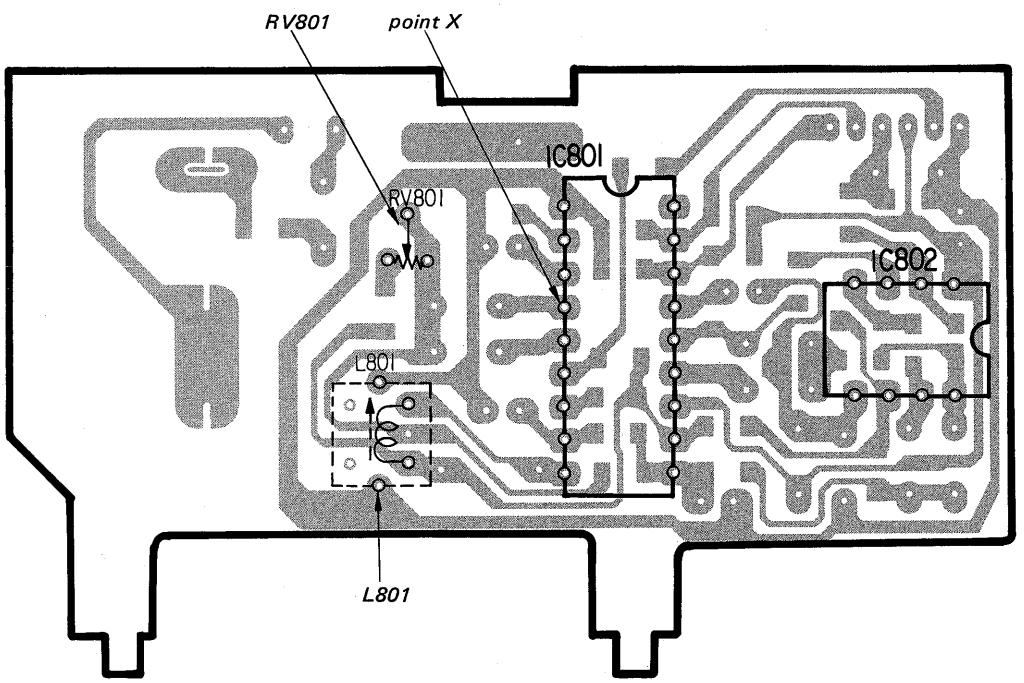



*Frequency: Initial frequency*
*Modulation: ARI carrier only*
*Output level: 4 mVrms (composit)*

**Procedure:**
1. Adjust L801 so that the level of 125 Hz signal becomes maximum.
2. Adjust RV801 in the same way.

**Specification:** 1 Vrms or more

**Adjustment Location:** SDK board conductor side view



# SECTION 4
# DIAGRAMS

【IC301 (μPD75108G-697)】

The μPD75108G-697 functions are described below.

- Description

| Pin No. | Name | I/O | Description |
|---|---|---|---|
| 1 | CLOCK | O | Clock output for data transfer related to display (LCD), PLL, and electronic volume control.<br>CMOS output, active high. |
| 2 | DATA | O | Data on the display (LCD), PLL, and electronic volume control are output from this terminal.<br>CMOS output, active high. |
| 3 | PLL | O | Output terminal for PLL data selection.<br>When this terminal is high, the data is used for PLL setting. The data is set to PLL at the trailing edge ( ⌐└ ).<br>CMOS output, active high. |
| 4 | VOL | O | Output terminal for electronic volume control data selection. When this terminal is high, the data is used for electronic volume control setting.<br>The data is set to the electronic volume control at the trailing edge ( ⌐└ ).<br>CMOS output, active high. |
| 5 | RADIO | O | Output terminal for controlling the power source of the tuner block.<br>The RADIO output goes high during tuner mode and when SDK is on.<br>CMOS output, active high. |
| 6 | LW | O | Output terminal for LW/MW switching. The LW output goes high when the LW band is selected, and remains low when any other bands are selected.<br>CMOS output, active high. |
| 7 | $\overline{\text{RESET}}$ | — | The microcomputer hardware is reset by this terminal. It should be pulled up (by VCC) at all times including backup (using lithium battery).<br>The microcomputer hardware is reset when this terminal is set from low to high. It reset is executed during backup operation, operation is not normal. Reset should be executed with the backup line connected.<br>(The reset button on the panel will not work unless the backup line is connected.) |
| 8 | ×2 | — | ×2 and ×1 are connected to the osillator to provide the clock for this microcomputer. The oscillation is realized by cellalock of 4.19 MHz which is operated whis an instruction cycle of 0.97 usec.<br>Oscillation is maintained during battery backup. |
| 9 | ×1 | — | |
| 10 | MONO/ST | I/O | Forced monaural output terminal and stereo input terminal. The terminal functions as the STEREO input terminal when MONO is off (AUTO stereo mode). When the terminal is made low, the stereo pilot lamp goes on.<br>The terminal functions as the MONO output terminal when MONO is on (forced monaural) and the output is made low.<br>Note : The STK3400 is set to forced monaural if no current is fed to the stereo indicator terminal. Current is fed by the microcomputer to set MONO.<br>CMOS output or CMOS input, low active. |
| 11 | ACC IN | I | Input terminal for ACC voltage detection.<br>The terminal is used to determine whether the ACC is on or off.<br>When this input is made low, the ACC off processing is executed (tape stop mute output). |
| 12 | EQ IN | I | A connected graphic equalizer is detected by the EQ IN terminal. When this terminal is made high, the fader control is centered and fader control selection by the select key is disabled. |

<table>
<tr><th>Pin No.</th><th>Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>13</td><td>METAL</td><td>O</td><td>Metal output and AUTO metal input terminal.<br>After reset is complete, Metal display is turned on if this input is high in input mode. Metal is not displayed if this input is low.<br>When the Metal button is pressed, metal output is set in, high signal is output from this terminal, and Metal is displayed.<br>The mode is reset to Input mode when the Metal button is pressed again.</td></tr>
<tr><td>14<br>15<br>16<br>17</td><td>MS3<br>MS2<br>MS1<br>MS0</td><td>—</td><td>Pins ⑭ to ⑰ are input terminals for directional mode setting.
<table>
<tr><th></th><th>MSO</th><th>MS1</th><th>MS2</th><th>MS3</th><th>FM</th><th>AM (MW)</th><th>Others</th></tr>
<tr><td>XR-7162</td><td>0</td><td>0</td><td>1</td><td>1</td><td>87.5 to 108MHz (50kHz)</td><td>531 to 1602kHz (9kHz)</td><td>SDK mode ＊1</td></tr>
<tr><td>TEST</td><td>0</td><td>0</td><td>0</td><td>0</td><td>76.0 to 90.0MHz (100kHz)</td><td>522 to 1629kHz (9kHz)</td><td>Test mode ＊2</td></tr>
</table>
Note :<br>＊1 When the SDK mode is selected, the button functions are modified as follows :<br>SDK<br>FM/AM<br>MONO/LOCAL<br>DSPL<br>＊2 During the test mode, the power switch is held off and tape end is not detected.<br>Power function : Voltage is applied if the power source is on.</td></tr>
<tr><td>18<br>19</td><td>LM1<br>LM0</td><td>O</td><td>Loading motor control output port.
<table>
<tr><th>Motor rotation</th><th>LM0</th><th>LM1</th></tr>
<tr><td>Loading direction</td><td>High</td><td>Low</td></tr>
<tr><td>Eject direction</td><td>Low</td><td>High</td></tr>
<tr><td>FF and REW (including AMS) mode</td><td>High (Brake)</td><td>High (Brake)</td></tr>
</table></td></tr>
<tr><td>20</td><td>CPM</td><td>O</td><td>Output terminal for capstan motor control.<br>The signal is kept high during PLAY, FF, and REW (including AMS) modes.</td></tr>
<tr><td>21</td><td>DPL</td><td>O</td><td>Output terminal for plunger control.<br>The signal is kept high during PLAY, FF, and REW (including AMS) modes.<br>The signal output is kept off for about 60 msec during direction mode.</td></tr>
</table>

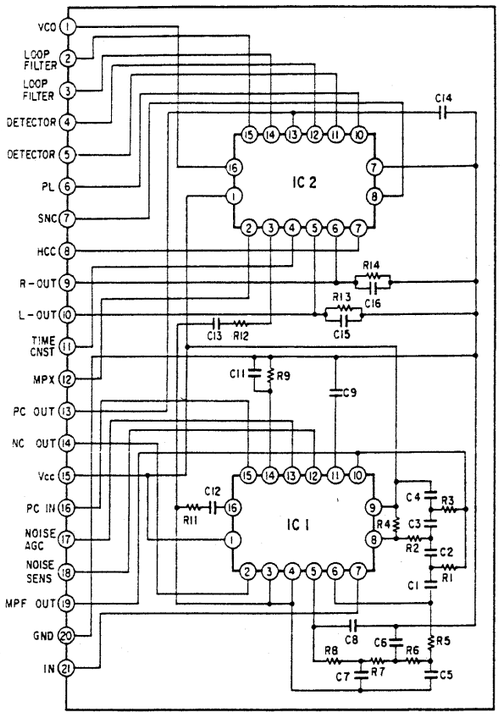
<table>
<tr><th>Pin No.</th><th>Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>22<br>23<br>24<br>25</td><td>PS1<br>PS2<br>PS3<br>PS4</td><td>I</td><td>Input terminals for detection of the MD (CMX-55) position.
<table>
<tr><td></td><td colspan="8">MD position</td></tr>
<tr><td>Switch port</td><td>EJECT</td><td>STOP</td><td></td><td>FF*</td><td></td><td>REW*</td><td></td><td>PLAY</td></tr>
<tr><td>PS1</td><td>0</td><td>0</td><td>0</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr>
<tr><td>PS2</td><td>1</td><td>1</td><td>0</td><td>0</td><td>0</td><td>1</td><td>1</td><td>1</td></tr>
<tr><td>PS3</td><td>1</td><td>1</td><td>1</td><td>1</td><td>0</td><td>0</td><td>0</td><td>1</td></tr>
<tr><td>PS4</td><td>0</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>0</td><td>0</td></tr>
</table>
Note : The FF position and REW position are interchanged when the direction is reversed (FF to REW and REW to FF). The STOP mode indicates the status immediately after "0011" is changed to "0111", because switch mode during EJECT (set from STOP) is identical to the STOP status.</td></tr>
<tr><td>26</td><td>VSS</td><td>—</td><td>Microcomputer power source (GND) terminal.</td></tr>
<tr><td>27</td><td>BACK UP</td><td>I</td><td>Input terminal for back up current detection.<br>When this terminal is made low, the microcomputer clock is terminated (stop mode) and memory is backed up at low voltage.<br>When the terminal is set from low to high at the leading edge, the clock is started (operation is enabled).</td></tr>
<tr><td>28</td><td>OFF IN</td><td>I</td><td>Terminal for Handle Up detection.<br>When this input is high, operation identical to power off is executed.<br>When this input is made low, the previous status is reset.</td></tr>
<tr><td>29</td><td>AMS</td><td>I</td><td>This input is used to detect tuning during tape playback and AMS.<br>No curve is contained if this terminal is high, and the terminal is made low if curve is detected.</td></tr>
<tr><td>30</td><td>N/R</td><td>I</td><td>Input terminal to detect tape running direction.<br>High : Normal direction<br>Low : Reversed direction<br>During tape playback, the MD is controlled to match this input with the microcomputer internal status.</td></tr>
<tr><td>31<br>32</td><td>END1<br>END2</td><td>I<br>I</td><td>END1 and END2 are used to detect reel table rotation for tape end detection and tuning detect timing during AMS mode. Both leading and trailing edges ( ⌐ and ¬ ) are counted (16 counts for one reel table rotation).<br>END1 (REEL1) ··· Normal direction take up reel table<br>END2 (REEL2) ··· Reverse direction take up reel table</td></tr>
<tr><td>33</td><td>SK<br>(Signal identifying the traffic information broadcasting station)</td><td>I</td><td>SK input terminal in SDK directional mode.<br>High : SK present (SK is indicated.)<br>Low : SK absent (No indication.)<br>If this terminal is held low for more than 8 seconds while the SDK switch is on, SEEK is executed automatically from local mode.(This applies to FM band.)<br>When SDK is on, only the stations with this terminal in high mode are terminated (automatic station selecting).</td></tr>
<tr><td>34</td><td>SDL</td><td>I</td><td>This input is used to detect the level of Seek, Memory scan, and AUTO memory during tuner automatic station selection.<br>When this terminal is made high, "station preset" is assumed and the SDS is output to start the IF counter of the PLL IC.<br>This terminal is also checked during SDC check (PLL IC IF counter matched output). If it is high, the station selection operation is terminated.<br>(AUTO memory is switched to Memory and Memory scan is held temporarily.)</td></tr>
</table>

<table>
<tr><th>Pin No.</th><th>Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>35</td><td>DK<br>(Traffic information broadcasting signal)</td><td>I</td><td>If this input is made high while SDK is on, "traffic information start is assumed. Tape mode (AUX) is switched to tuner (FM) mode and the volume level is raised to the level specified in memory. The SDK indication continues blinking during this operation. The system is reset to the previous mode when this input is made low or SDK is turned off.</td></tr>
<tr><td>36</td><td>BK<br>(Area identification signal)</td><td>I</td><td>Signals between 23 Hz and 54 Hz are counted and the area code is indicated (while SDK is on) as follows :<br>A 23.75 Hz<br>B 28.27 Hz<br>C 34.93 Hz<br>D 39.58 Hz<br>E 45.67 Hz<br>F 53.98 Hz</td></tr>
<tr><td>37</td><td>DK OUT</td><td>O</td><td>This output is usually kept high but is made low when the traffic information receive mode is set by the DK input.<br>CMOS output.</td></tr>
<tr><td>38</td><td>ILM2</td><td>O</td><td>Illumination mode output 2 is used for switching the dimmer on and off in this system.<br>Press button No. 4 while pressing the SELECT button to change the switching status.<br>ILM2 is made low during reset.</td></tr>
<tr><td>39</td><td>ILM1</td><td>O</td><td>Illumination mode output 1 is reserved in this system.
<table>
<tr><th>Button operation</th><th>ILM1</th></tr>
<tr><td>If Select and No. 1 are pressed :</td><td>Low</td></tr>
<tr><td>If Select and No. 2 are pressed :</td><td>High</td></tr>
<tr><td>If Select and No. 3 are pressed :</td><td>Low in Tuner mode<br>High in Tape or AUX mode</td></tr>
</table></td></tr>
<tr><td>40</td><td>BEEP</td><td>O</td><td>Output terminal to control the button operation confimation sound.<br>The multivibrator is controlled by this output to generate key tone pulse of about 60 mesc.<br>This output is disabled by pressing button No. 6 while pressing the SELECT button.</td></tr>
<tr><td>41</td><td>K3</td><td>I</td><td rowspan="4">Key input terminal.<br>Usually pulled up at 5 V. Key input is assumed when the signals are made low by the KS port.</td></tr>
<tr><td>42</td><td>K2</td><td>I</td></tr>
<tr><td>43</td><td>K1</td><td>I</td></tr>
<tr><td>44</td><td>K0</td><td>I</td></tr>
<tr><td>45</td><td>KS5</td><td>O</td><td rowspan="6">Key scan output terminals of N channel open drain type (active low).</td></tr>
<tr><td>46</td><td>KS4</td><td>O</td></tr>
<tr><td>47</td><td>KS3</td><td>O</td></tr>
<tr><td>48</td><td>KS2</td><td>O</td></tr>
<tr><td>49</td><td>KS1</td><td>O</td></tr>
<tr><td>50</td><td>KS0</td><td>O</td></tr>
<tr><td>51</td><td>B/$\overline{C}$</td><td>O</td><td>Dolby B/C selector output terminal.<br>High when Dolby B is selected or Dolby is off.<br>Low when Dolby C is selected.<br>The output can be pulled up at 5 V or above (up to 10 V) because it is on N channel open drain type (active low).</td></tr>
<tr><td>52</td><td>$\overline{DOLBY}$</td><td>O</td><td>Dolby on/off selector output terminal.<br>Low when Dolby is on (B & C).<br>High when Dolby is off.<br>The output can be pulled up at 5 V or above (up to 10 V) because it on N channel open drain type (active low).</td></tr>
</table>

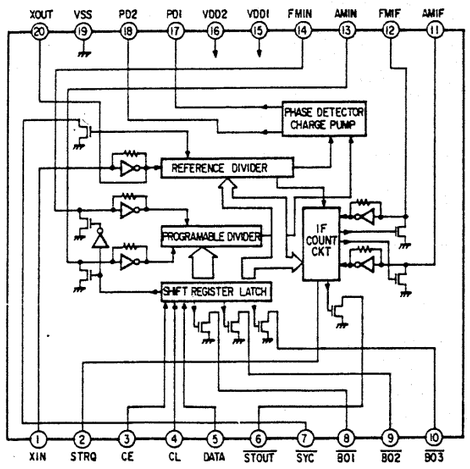
<table>
<tr><th>Pin No.</th><th>Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>53</td><td>S2</td><td>O</td><td rowspan="2">Signal selector output terminal.<br>Signals are selected as follows :<br><table><tr><td colspan="2"></td><td>S1</td><td>S2</td></tr><tr><td rowspan="2">Tape</td><td>NOR</td><td>Low</td><td>Low</td></tr><tr><td>REV</td><td>High</td><td>Low</td></tr><tr><td colspan="2">Tuner</td><td>Low</td><td>High</td></tr><tr><td colspan="2">AUX</td><td>High</td><td>High</td></tr></table>The output can be pulled up at 5 V or above (up to 10 V) because it is on N channel open drain type (active low).</td></tr>
<tr><td>54</td><td>S1</td><td>O</td></tr>
<tr><td>55</td><td>FM/AM</td><td>O</td><td>Output terminal for FM/AM power sourece selection during Tuner mode.<br>Low ; FM<br>High ; AM<br>The current for the N channel open drain output is fed from the base of the transistor for power swicthing.</td></tr>
<tr><td>56</td><td>MUTE</td><td>O</td><td>Mute output terminal. The output is made high to apply muting during mode selection and AMS.<br>The signal is usually kept low and made high (high impedance) during nonoperating modes (N channel open drain type).</td></tr>
<tr><td>57</td><td>NC<br>(VPP)</td><td>—</td><td>Functions as VPP during one-time microcomputer mode and not connected (reserved) during mask mode.<br>For safety, NC is connected to the power source (VDD).</td></tr>
<tr><td>58</td><td>VDD</td><td>—</td><td>The microcomputer power source terminal, operating at 5 V ±0.5 V.</td></tr>
<tr><td>59</td><td>POWER</td><td>O</td><td>Power source control output terminal.<br>High level signal is output when power is turned on.<br>CMOS output.</td></tr>
<tr><td>60</td><td>OUT RUN</td><td>O</td><td>This output is used to stop the unit connected to the output terminal AUX for OUT RUN.<br>AUX High<br>Otherwise Low<br>CMOS output.</td></tr>
<tr><td>61</td><td>AUX IN</td><td>I</td><td>AUX mode input terminal.<br>When this input is made high, AUX input present is assumed and the system is set to AUX mode.</td></tr>
<tr><td>62</td><td>SDC</td><td>I</td><td>IF count matching output (PLL) input terminal.<br>If the IF frequency is matched, low is output from the PLL IC.<br>Low is always applied during AM mode in this system.<br>(Stop is executed only the by level difference.)</td></tr>
<tr><td>63</td><td>SDS</td><td>O</td><td>IF count start output terminal. When this terminal is made high, the IF count starts (PLL) and the SDC is made low if the IF frequency is matched.<br>If the SDL is made high during automatic station selection, this terminal is made high to start the IF counter. Ohterwise, the output is kept low.<br>CMOS output.</td></tr>
<tr><td>64</td><td>LCD</td><td>O</td><td>Output terminal for LCD data selection. When this terminal is high, the deta is used for LCD display. This output is connected to the LCD driver (Sanyo LC7582) CE terminal and used as the data latch signal.<br>CMOS output.</td></tr>
</table>

## • IC BLOCK DIAGRAMS

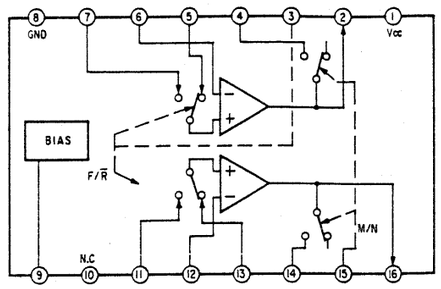
### IC1 STK-3400



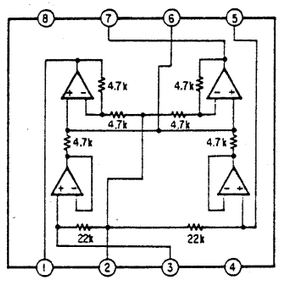

### IC2 LM7000



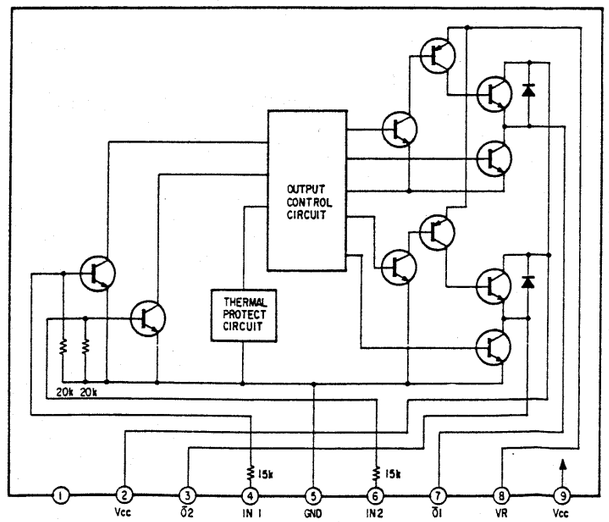

### IC101 TA7705F



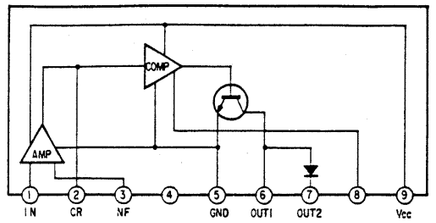

### IC110, 112 M5280FP



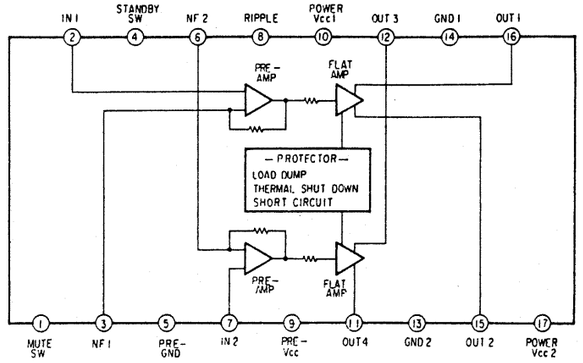

### IC302 M54644BL



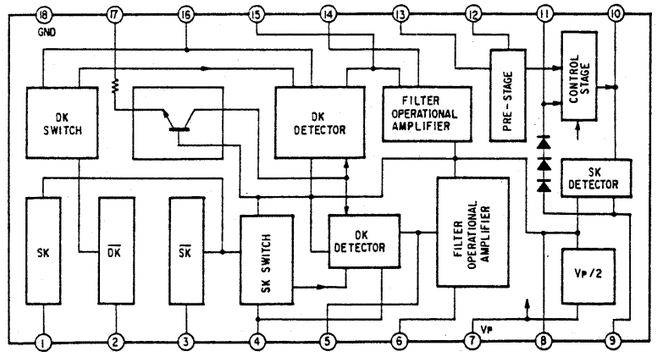

### IC304 LA2000



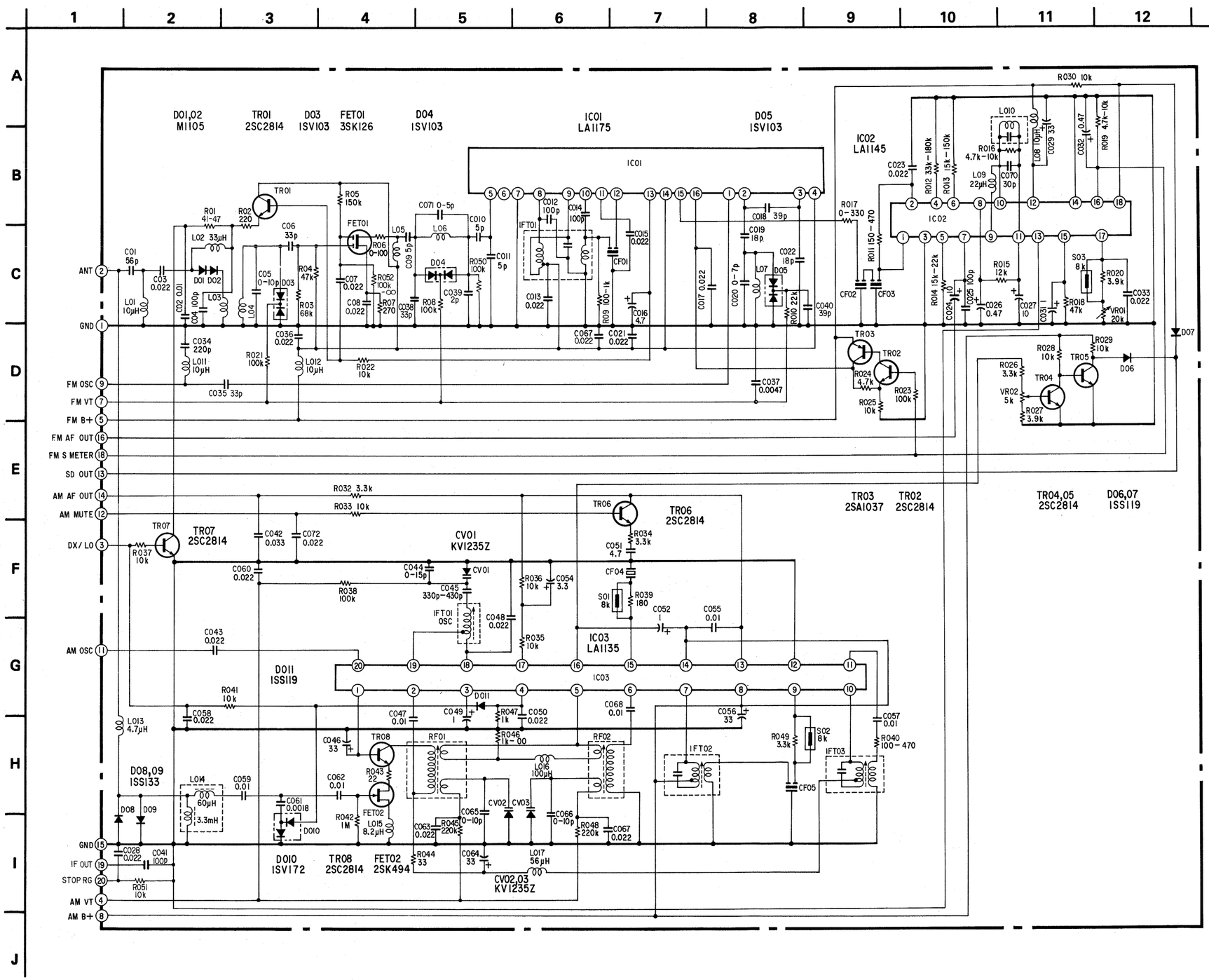

### IC501 TA8210H




### IC801 TDA1579



## 4-1. TUNER SECTION SCHEMATIC DIAGRAM

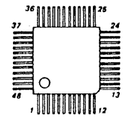




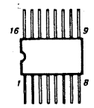



● Semiconductor Lead Layouts

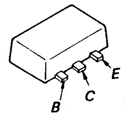
CXA1097Q



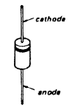
TA7705F
μPD4052BG



2SB1115A
2SD1615A-GP

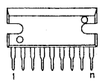



RD6.2E-L2
RD9.1E-B2
10E2

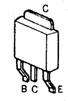



LA2000

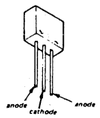
TA8210H



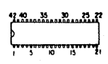
2SD1802FAS




1S2838

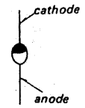



LC7537AN

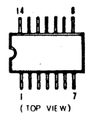



RC4558P

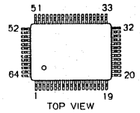
DSA3A4




M5228FP
TC4081BF
μPD4066BG

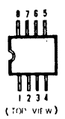



μPD75108G-697-1B



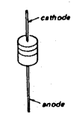

LN1451C

M5280FP
μPC4560G2

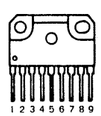



DTA114EK
DTC114EK
DTC144EK
DTC314TKH04
2SC1623

RD10ES-B2
RD11ES-B2
RD3.9ES-B2
RD4.3ES-B1
RD4.7ES-B2
RD5.6ES-B2
1SS119




M54644BL



## 4-2. MAIN SECTION PRINTED WIRING BOARDS

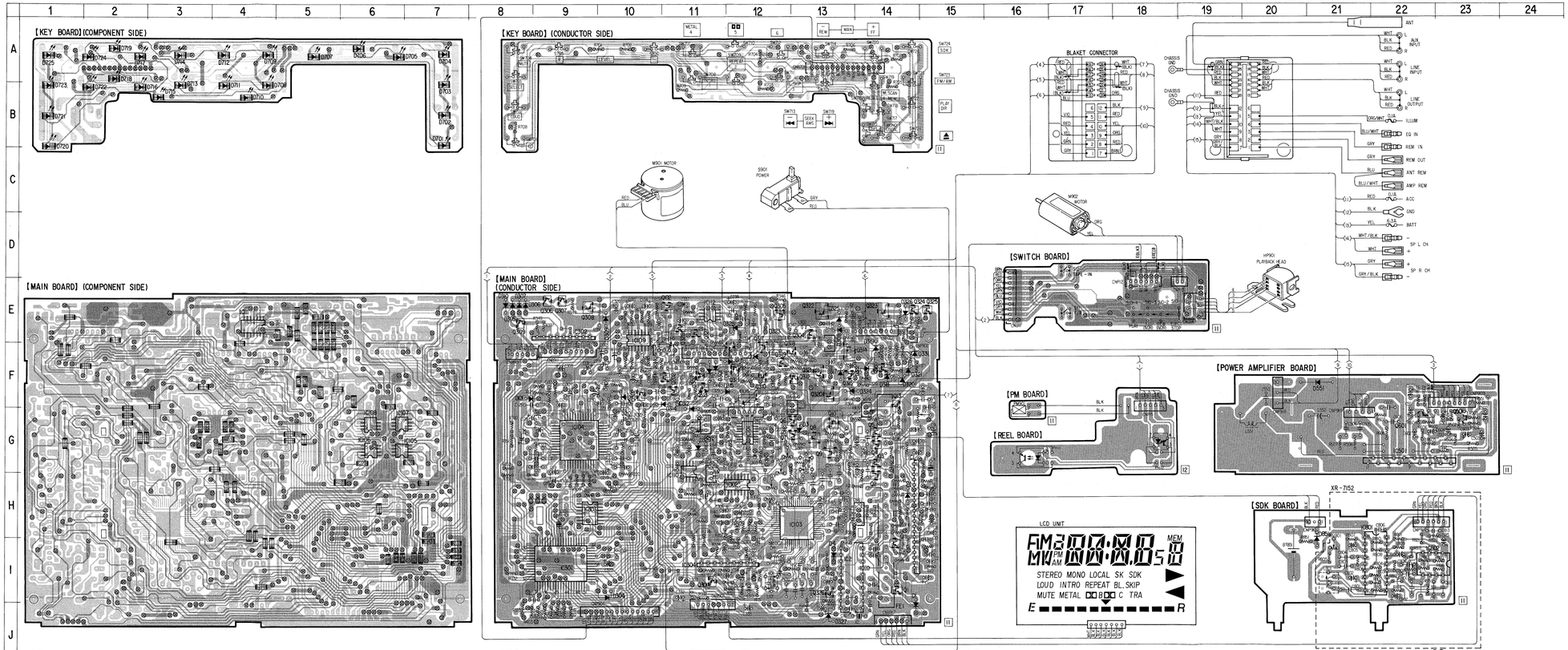
- **See page 23 for Semiconductor Lead Layouts.**
- Color code or sleeving over the end of the jacket.

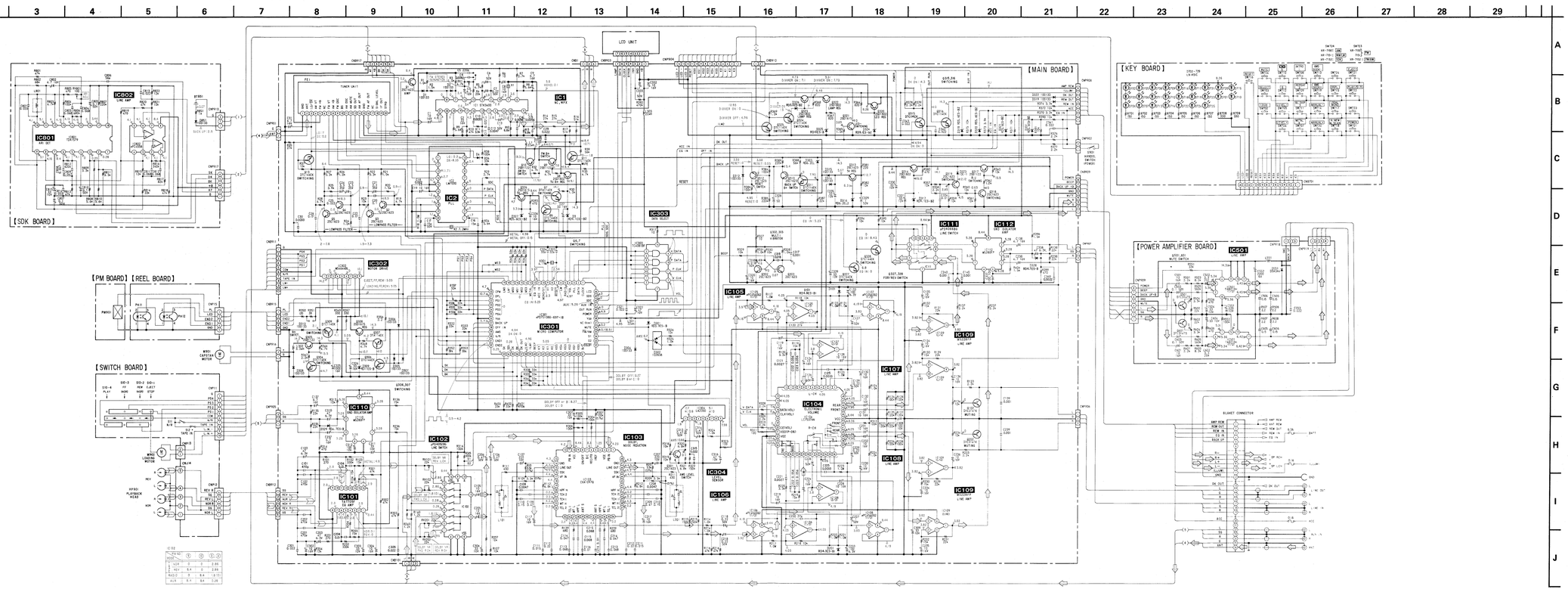
- ⊶—: parts extracted from the component side.
- ⊗ : Through hole.
- ▒▒▒: Pattern on the side which is seen.
- ▒▒▒: Pattern of the rear side.
- □ : Chip components extracted from the rear side.
- CND: Canadian

**● Semiconductor Location**

| Ref. No. | Location | Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|---|---|
| D1 | J-14 | D716 | B-2 | Q302 | F-10 |
| D2 | H-14 | D717 | A-2 | Q303 | F-11 |
| D3 | G-13 | D718 | A-2 | Q304 | E-13 |
| D4 | I-13 | D719 | A-2 | Q305 | E-12 |
| D101 | F-8 | D720 | B-1 | Q306 | E-9 |
| D201 | F-10 | D721 | B-1 | Q307 | E-9 |
| D301 | F-11 | D722 | B-2 | Q308 | E-9 |
| D302 | F-11 | D723 | B-1 | Q309 | E-8 |
| D303 | F-12 | D724 | A-2 | Q310 | F-12 |
| D304 | I-10 | D725 | A-1 | Q311 | F-12 |
| D305 | E-8 | D851 | I-21 | Q312 | F-12 |
| D306 | E-8 | | | Q313 | F-11 |
| D307 | E-8 | IC1 | H-14 | Q314 | F-13 |
| D308 | E-13 | IC2 | I-13 | Q315 | F-13 |
| D309 | E-10 | IC101 | G-12 | Q316 | F-14 |
| D310 | E-8 | IC102 | G-12 | Q317 | F-12 |
| D312 | G-11 | IC103 | H-13 | Q318 | F-12 |
| D314 | F-10 | IC104 | G-9 | Q319 | F-12 |
| D315 | F-11 | IC105 | G-6 | Q320 | F-13 |
| D316 | F-11 | IC106 | G-6 | Q321 | F-13 |
| D317 | F-13 | IC107 | G-6 | Q322 | E-13 |
| D318 | F-14 | IC108 | G-6 | Q323 | E-14 |
| D319 | F-14 | IC109 | E-10 | Q324 | E-14 |
| D320 | F-14 | IC110 | H-11 | Q325 | E-15 |
| D321 | F-14 | IC111 | E-4 | Q326 | I-13 |
| D322 | F-14 | IC112 | E-11 | Q327 | E-11 |
| D323 | F-12 | IC301 | I-9 | Q328 | E-11 |
| D324 | F-13 | IC302 | E-9 | Q501 | G-23 |
| D325 | E-13 | IC303 | H-9 | Q601 | G-22 |
| D326 | E-14 | IC304 | I-11 | | |
| D327 | J-13 | IC501 | G-22 | | |
| D328 | E-12 | IC801 | I-21 | | |
| D329 | E-11 | IC802 | I-22 | | |
| D331 | F-14 | | | | |
| D551 | F-21 | Q1 | I-14 | | |
| D701 | B-7 | Q2 | H-14 | | |
| D702 | B-7 | Q3 | G-14 | | |
| D703 | B-7 | Q4 | G-14 | | |
| D704 | A-7 | Q5 | G-14 | | |
| D705 | A-6 | Q6 | G-12 | | |
| D706 | A-6 | Q7 | G-12 | | |
| D707 | A-5 | Q8 | G-13 | | |
| D708 | B-4 | Q9 | G-13 | | |
| D709 | A-4 | Q10 | G-13 | | |
| D710 | B-4 | Q11 | I-14 | | |
| D711 | B-4 | Q13 | G-14 | | |
| D712 | A-4 | Q102 | E-11 | | |
| D713 | B-3 | Q202 | F-11 | | |
| D714 | A-3 | Q301 | I-11 | | |
| D715 | B-3 | | | | |








- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/8 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component
- ═══ : B+ Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM or PLAY
  ( ) : AM
- Voltages are taken with a VOM (50 kΩ/V). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM, ⇦ : PB
- Switch

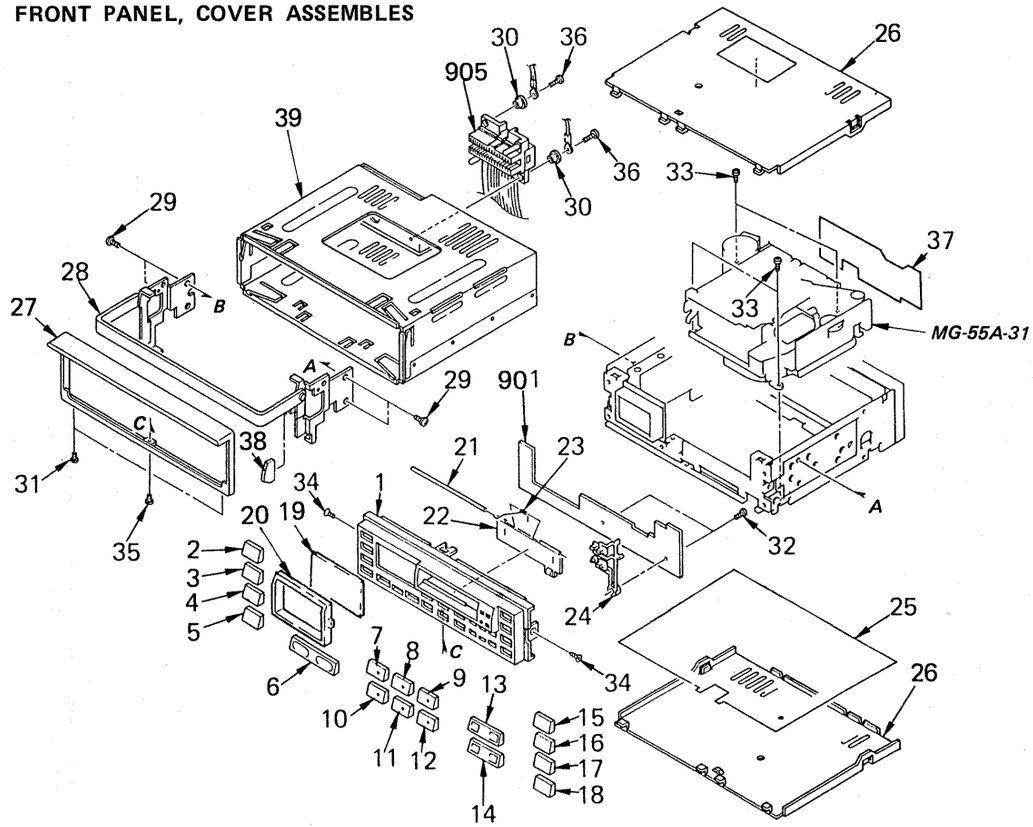
| Ref. No. | Switch | Position |
|---|---|---|
| S10-1 | EJECT STOP | OFF |
| S10-2 | REW (NOR) | OFF |
| S10-3 | FF (NOR) | OFF |
| S10-4 | PLAY | OFF |
| S11 | N/R | OFF |
| S12 | TAPE IN | OFF |
| SW701 | POWER | OFF |
| SW702 | LOUD | OFF |
| SW703 | SELECT | OFF |
| SW704 | MUTE | OFF |
| SW705 | LEVEL – | OFF |
| SW706 | LEVEL + | OFF |
| SW707 | 4/METAL | OFF |
| SW708 | 1/INTRO | OFF |
| SW709 | 2/REPEAT | OFF |
| SW710 | 5/DOLBY | OFF |
| SW711 | 3/BL. SKIP | OFF |
| SW712 | 6 | OFF |
| SW713 | AMS/SEEK – | OFF |
| SW714 | MANUAL – | OFF |
| SW715 | DSPL | OFF |
| SW716 | RESET | OFF |
| SW717 | LOCAL/MONO | OFF |
| SW718 | A. MEN/M. SCAN | OFF |
| SW719 | AMS/SEEK + | OFF |
| SW720 | MANUAL + | OFF |
| SW721 | EJECT | OFF |
| SW722 | PLAY/DIR | OFF |
| SW723 | FM/AM | OFF |
| SW724 | SDK | OFF |

# SECTION 5
# EXPLODED VIEWS

**NOTE:**

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts Color

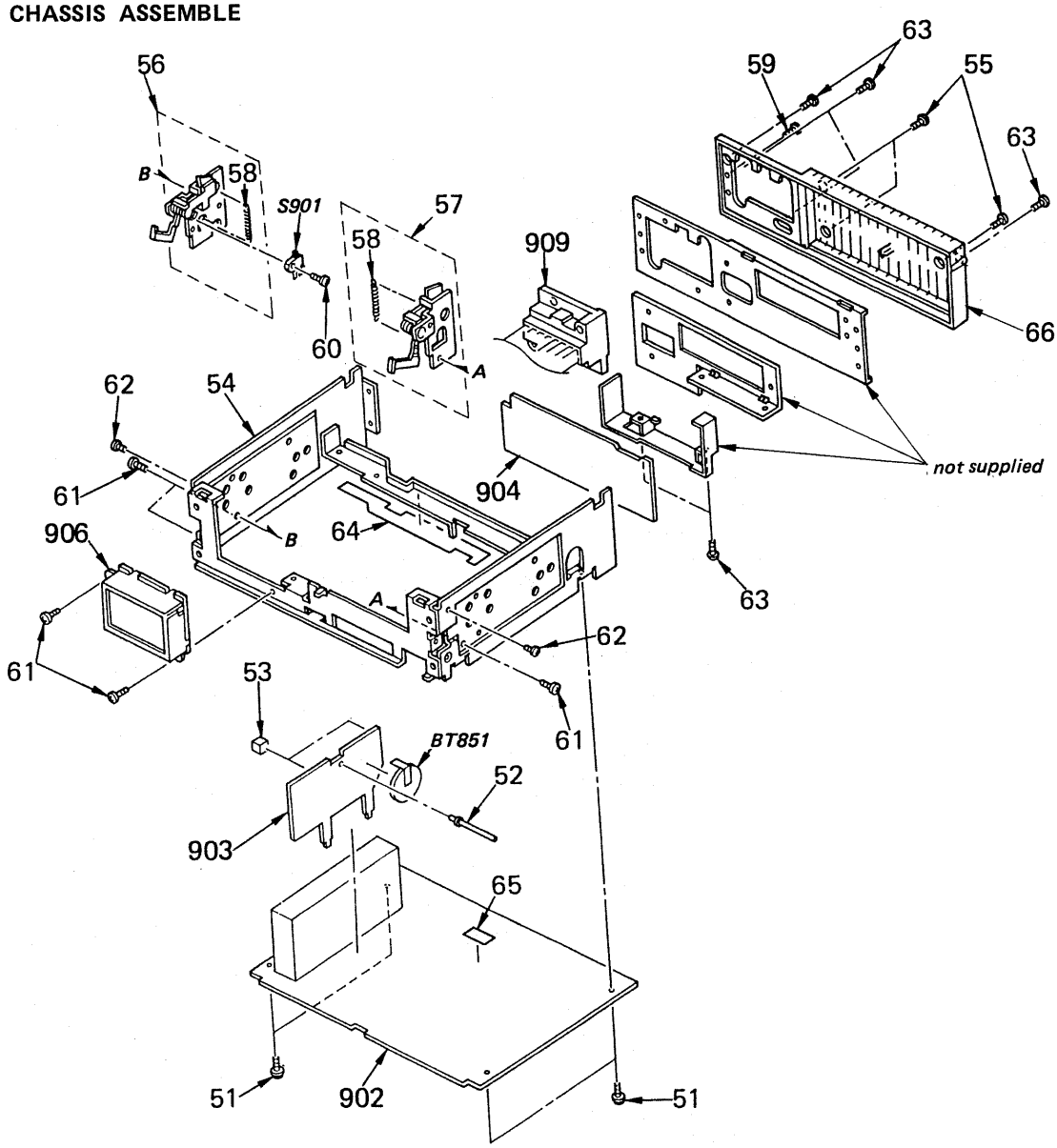
## (1) FRONT PANEL, COVER ASSEMBLES




| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 1 | 3-349-495-21 | PANEL, FRONT | |
| 2 | 3-349-475-11 | BUTTON (LU:N1)(POWER) | |
| 3 | 3-349-472-01 | BUTTON (M:N1)(LOUD) | |
| 4 | 3-349-472-11 | BUTTON (M:N1)(SELECT) | |
| 5 | 3-349-476-01 | BUTTON (LD:N1)(MUTE) | |
| 6 | 3-349-493-01 | BUTTON (M:S3)(LEVEL) | |
| 7 | 3-349-471-01 | BUTTON (M:N1P)(1) | |
| 8 | 3-349-471-11 | BUTTON (M:N1P)(2) | |
| 9 | 3-349-471-21 | BUTTON (M:N1P)(3) | |
| 10 | 3-349-471-61 | BUTTON (M:N1P)(4) | |
| 11 | 3-349-471-71 | BUTTON (M:N1P)(5) | |
| 12 | 3-349-471-81 | BUTTON (M:N1P)(6) | |
| 13 | 3-349-492-11 | BUTTON (M:S2)(SEEK AMS) | |
| 14 | 3-349-492-31 | BUTTON (M:S2)(MANU) | |
| 15 | 3-349-473-01 | BUTTON (RU:N1)(EJECT) | |
| 16 | 3-349-491-01 | BUTTON (M:N1)(TAPE) | |
| 17 | 3-349-472-61 | BUTTON (M:N1)(FM/AM) | |
| 18 | 3-349-474-31 | BUTTON (RD:N1)(SDK) | |
| 19 | 3-357-058-01 | PLATE, INDICATION | |
| 20 | 3-353-441-11 | PLATE, ORNAMENTAL | |

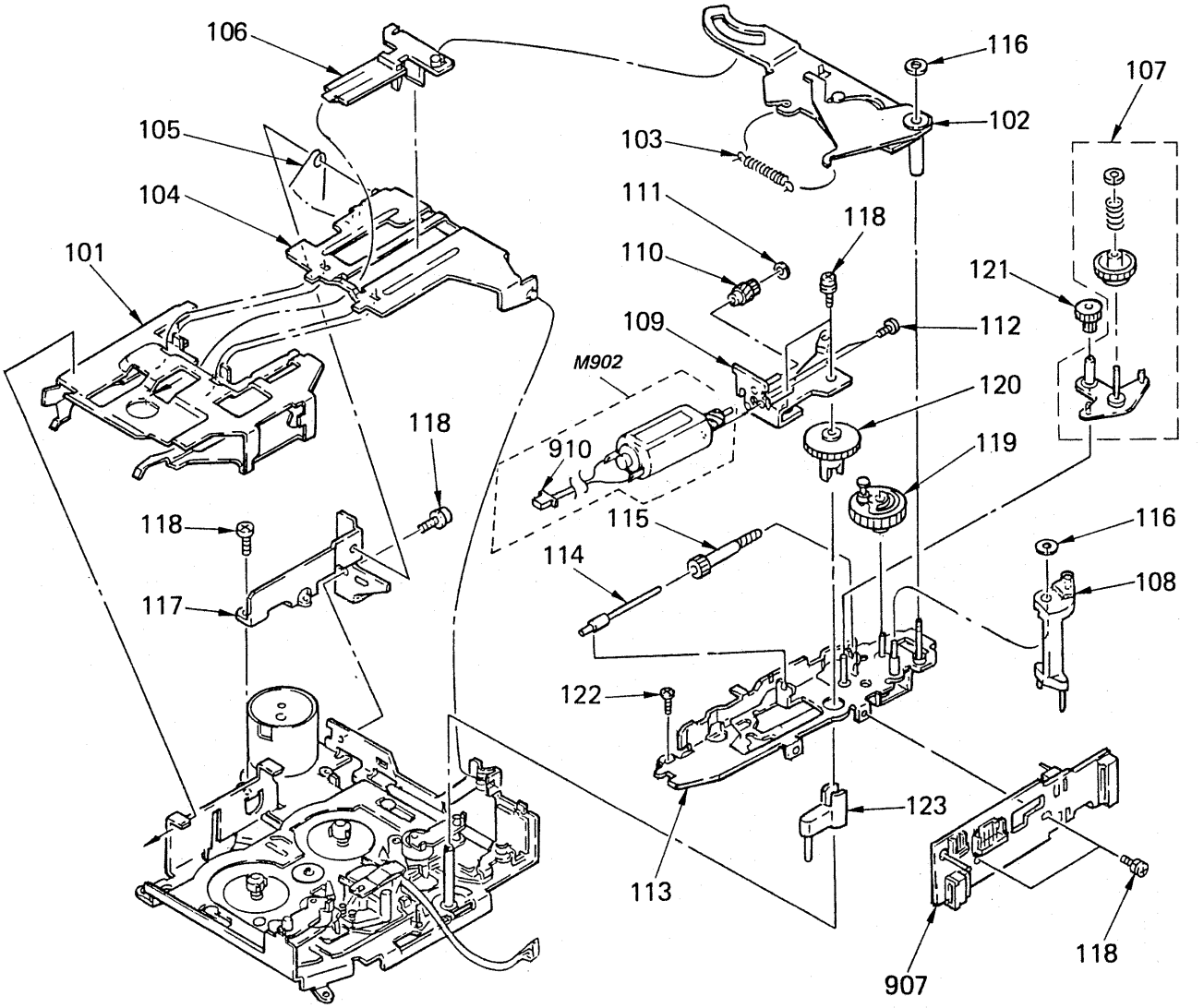
| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 21 | 3-332-130-01 | SHAFT, C DOOR | |
| 22 | A-3249-534-A | DOOR ASSY, CASSETTE | |
| 23 | 3-332-131-01 | SPRING | |
| 24 | 3-344-519-01 | BUTTON (D) | |
| 25 | *3-344-560-11 | INSULATOR (3) | |
| 26 | *3-353-402-11 | COVER | |
| 27 | 3-344-564-01 | FRAME, ORNAMENTAL | |
| 28 | X-3344-508-1 | HANDLE ASSY | |
| 29 | 3-344-561-01 | SCREW (M4X5) | |
| 30 | 3-344-536-01 | COLLAR (JACK) | |
| 31 | 7-627-553-38 | SCREW, PRECISION +P 2X3 | |
| 32 | 7-685-103-19 | SCREW +P 2X5 TYPE2 NON-SLIT | |
| 34 | 7-621-770-87 | SCREW +PTT 2.6X5 (S) | |
| 35 | 7-621-283-00 | SCREW +P 2X5 | |
| 36 | 7-682-548-04 | SCREW +B 3X8 | |
| 37 | *3-344-590-01 | INSULATOR (5) | |
| 38 | 3-344-526-02 | BUTTON (RELESE) | |
| 39 | X-3344-510-3 | BRACKET ASSY | |
| 901 | *1-626-654-11 | PC BOARD, KEY | |
| 905 | 1-559-924-11 | CORD (WITH CONNECTOR) | |

## (2) CHASSIS ASSEMBLE




| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 51 | 3-344-501-11 | SCREW (+ PTT 3X8), GROUND POINT | |
| 52 | *3-847-723-00 | PIN, LEAD | |
| 53 | 9-911-841-XX | CUSHION, CASSETTE LID | |
| 54 | *X-3344-501-6 | CHASSIS ASSY | |
| 55 | 7-685-646-79 | SCREW +P 3X8 TYPE2 NON-SLIT | |
| 56 | X-3344-502-1 | LOCK ASSY (LEFT) | |
| 57 | X-3344-503-A | LOCK ASSY (RIGHT) | |
| 58 | 3-645-189-00 | SPRING, TENSION | |
| 59 | 7-621-770-87 | SCREW +PTT 2.6X5 (S) | |
| 60 | 7-621-283-00 | SCREW +P 2X5 | |
| 61 | 7-621-773-86 | SCREW +PTT 2.6X4 (S) | |
| 62 | 7-627-553-38 | SCREW, PRECISION +P 2X3 | |
| 63 | 7-682-547-04 | SCREW +PTT 3X6 (S) | |
| 64 | *3-344-589-01 | INSULATOR (4) | |
| 65 | 3-564-738-00 | SPACER | |
| 66 | *3-344-572-01 | COVER (PREVENTION HEAT) | |
| 902 | *A-3216-591-A | PC BOARD ASSY, MAIN | |
| 903 | *1-626-656-11 | PC BOARD, SDK | |
| 904 | *1-626-655-11 | PC BOARD, POWER AMPLIFIER | |
| 906 | 1-808-393-11 | DISPLAY PANEL, LIQUID CRYSTAL | |
| 909 | 1-559-920-11 | CORD (WITH CONNECTOR) | |
| BT851 | 1-528-225-31 | BATTERY, LITHIUM | |
| S901 | 1-570-771-11 | SWITCH (POWER) | |

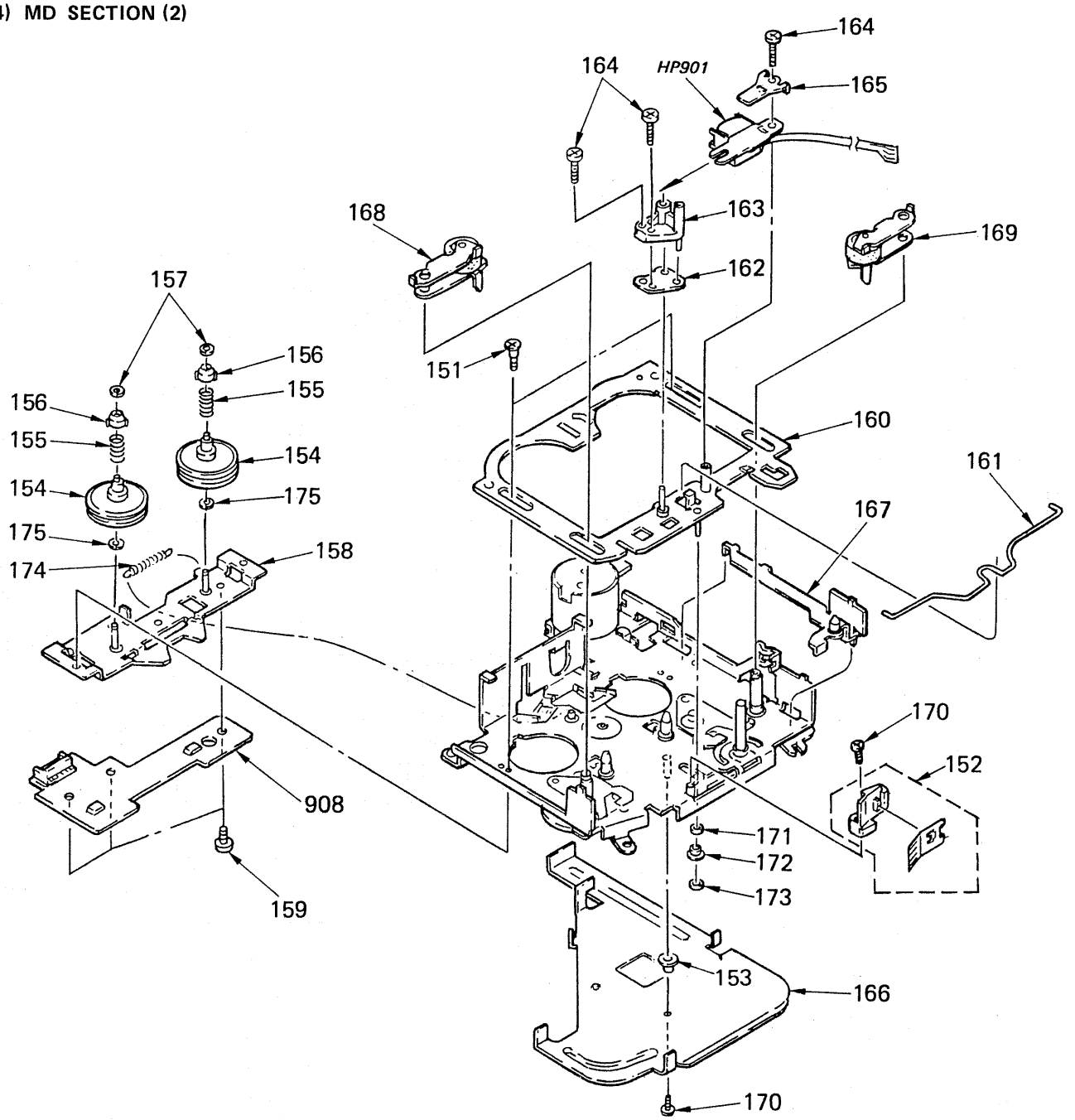
### (3) MD SECTION (1)




| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 101 | *3-344-103-01 | HOUSING, CASSETTE | |
| 102 | *X-3344-121-1 | ARM ASSY, SUCTION | |
| 103 | 3-344-216-01 | SPRING (SUCTION ARM), TENSION | |
| 104 | *X-3344-120-1 | HANGER ASSY, HOUSING | |
| 105 | 3-344-113-01 | SPRING | |
| 106 | *3-344-118-01 | CATCHER | |
| 107 | A-3239-954-A | GEAR ASSY, DRIVING ARM | |
| 108 | *X-3344-122-1 | ARM ASSY, REVERSE | |
| 109 | *X-3344-110-1 | BRACKET ASSY, MOTOR | |
| 110 | 3-344-170-01 | GEAR (A), DRIVING | |
| 111 | 3-344-223-01 | WASHER | |
| 112 | 7-627-553-27 | SCREW, PRECISION +P 2X2.5 | |
| 113 | *X-3344-108-1 | CHASSIS ASSY, MCU | |

| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 114 | *3-344-157-01 | SHAFT, DRIVING GEAR (B) | |
| 115 | 3-344-156-01 | GEAR (B), DRIVING | |
| 116 | 3-344-222-01 | WASHER | |
| 117 | *3-344-112-11 | BRACKET, HANGER | |
| 118 | 7-628-253-00 | SCREW +PS 2X4 | |
| 119 | X-3344-119-1 | GEAR ASSY, LOADING CAM | |
| 120 | 3-344-114-01 | GEAR, MODE | |
| 121 | 3-344-108-01 | GEAR (A), FRICTION | |
| 122 | 7-621-255-25 | SCREW +P 2X4 | |
| 123 | X-3344-117-1 | ARM ASSY, MODE | |
| 907 | *1-624-413-11 | PC BOARD, SWITCH | |
| 910 | *1-563-470-11 | HOUSING, CONNECTOR 2P | |
| M902 | A-3239-956-B | MOTOR SUB ASSY, L | |

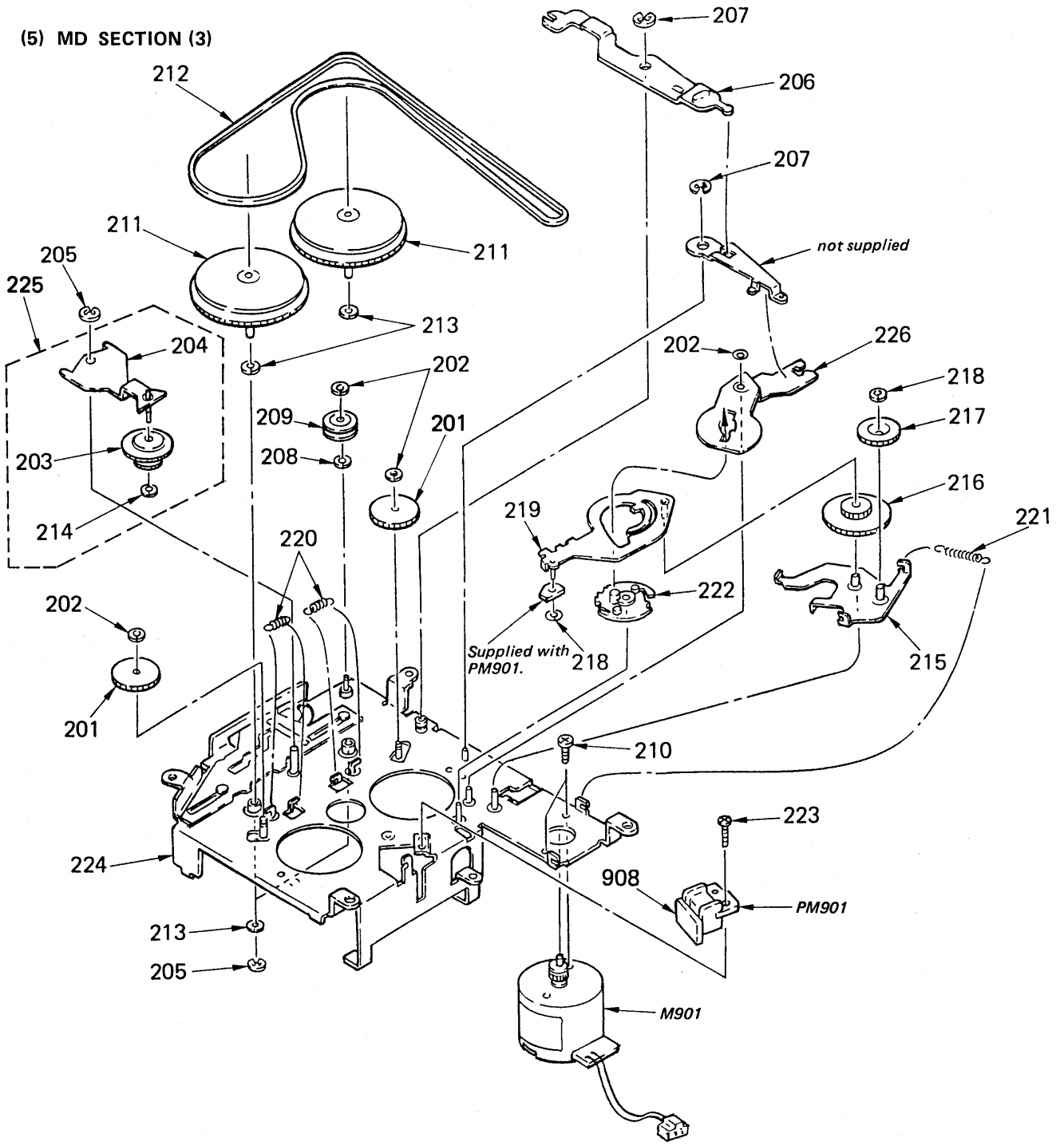
## (4) MD SECTION (2)




| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 151 | 3-344-110-01 | SCREW (HB), STEP | |
| 152 | A-3239-952-A | CONTACT ASSY | |
| 153 | 3-344-251-01 | RETAINER, MODE LEVER | |
| 154 | X-3344-104-1 | TABLE ASSY, REEL | |
| 155 | 3-344-143-01 | SPRING (BT), COMPRESSION | |
| 156 | 3-344-136-01 | CAP, REEL | |
| 157 | 3-344-224-01 | WASHER | |
| 158 | *X-3344-105-1 | BRACKET ASSY, REEL TABLE | |
| 159 | 7-627-553-27 | SCREW, PRECISION +P 2X2.5 | |
| 160 | *X-3344-103-1 | BASE ASSY, HEAD | |
| 161 | 3-344-129-01 | SPRING | |
| 162 | 3-344-128-01 | SEAM, DAH | |
| 163 | 3-344-127-01 | ARM, DAH | |
| 164 | 3-344-254-01 | SCREW, ADJ | |

| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 165 | 3-344-130-01 | RETAINER, HEAD | |
| 166 | *3-344-220-01 | COVER, MD | |
| 167 | *X-3344-118-1 | LEVER ASSY, RVS CONVERSION | |
| 168 | X-3344-116-1 | ARM (F) ASSY, PINCH | |
| 169 | X-3344-115-1 | ARM (R) ASSY, PINCH | |
| 170 | 7-627-850-18 | SCREW, PRECISION +P 1.4X2.5 | |
| 171 | 3-344-117-01 | ROLLER (B), H/B | |
| 172 | 3-344-116-01 | ROLLER (A), H/B | |
| 173 | 3-344-222-01 | WASHER | |
| 174 | 3-344-217-01 | SPRING (CAM LOCK LEVER), TENTION | |
| 175 | 3-701-437-11 | POLY-SLIDER (A) | |
| 908 | *1-624-412-11 | PC BOARD, REEL | |
| HP901 | 1-543-506-11 | HEAD, MAGNETIC (PLAYBACK) | |

(5) MD SECTION (3)




| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 201 | 3-344-104-01 | GEAR, PLAY | |
| 202 | 3-344-222-01 | WASHER | |
| 203 | X-3344-102-1 | GEAR ASSY, FR | |
| 204 | *X-3344-101-1 | ARM ASSY, FR | |
| 205 | 3-590-768-00 | RING (A), E | |
| 206 | *3-344-107-01 | ARM, POWER | |
| 207 | 7-624-104-04 | STOP RING 2.0, TYPE -E | |
| 208 | 3-701-436-01 | WASHER, 1.6 | |
| 209 | 3-344-105-01 | PULLEY (ASSY), MIDWAY | |
| 210 | 7-627-553-27 | SCREW, PRECISION +P 2X2.5 | |
| 211 | 3-344-231-01 | FLYWHEEL (A) | |
| 212 | 3-344-115-01 | BELT | |
| 213 | 3-701-437-11 | POLY-SLIDER (A) | |
| 214 | 3-344-224-01 | WASHER | |
| 215 | *X-3344-106-1 | LEVER ASSY, RVS GEAR (B) | |

| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 216 | 3-344-146-01 | GEAR (B), RVS | |
| 217 | 3-344-147-01 | GEAR (A), RVS | |
| 218 | 3-344-223-01 | WASHER | |
| 219 | X-3344-107-1 | LEVER ASSY, CAM LOCK | |
| 220 | 3-344-218-02 | SPRING (PLAY ARM), TENSION | |
| 221 | 3-344-215-01 | SPRING, TENSION | |
| 222 | 3-344-119-01 | GEAR, RVS CAM | |
| 223 | 7-627-850-67 | SCREW, PRECISION +P 1.4X4 | |
| 224 | *X-3344-135-1 | CHASSIS ASSY, MECHANICAL | |
| 225 | A-3239-947-A | GEAR SUB ASSY, FR | 203,204,214 |
| 226 | *X-3344-114-1 | LEVER ASSY, RVS | |
| 908 | *1-624-412-11 | PC BOARD, PLUNGER | |
| M901 | A-3239-951-A | MOTOR SUB ASSY, CAPSTAN | |
| PM901 | 1-454-461-11 | SOLENOID, PLUNGER | |

# SECTION 6
# ELECTRICAL PARTS LIST

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| 901 | *1-626-654-11 | PC BOARD, KEY | | | |
| 902 | *A-3216-591-A | PC BOARD ASSY, MAIN | | | |
| 903 | *1-626-656-11 | PC BOARD, SDK | | | |
| 904 | *1-626-655-11 | PC BOARD, POWER AMPLIFIER | | | |
| 905 | 1-559-924-11 | CORD (WITH CONNECTOR) | | | |
| 906 | 1-808-393-11 | DISPLAY PANEL, LIQUID CRYSTAL | | | |
| 907 | *1-624-413-11 | PC BOARD, SWITCH | | | |
| 908 | *1-624-412-11 | PC BOARD, REEL | | | |
| 908 | *1-624-412-11 | PC BOARD, PLUNGER | | | |
| 909 | 1-559-920-11 | CORD (WITH CONNECTOR) | | | |
| 910 | *1-563-470-11 | HOUSING, CONNECTOR 2P | | | |
| BT851 | 1-528-225-31 | BATTERY, LITHIUM | | | |
| C1 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C2 | 1-124-234-00 | ELECT | 22MF | 20% | 16V |
| C3 | 1-126-281-11 | ELECT | 4.7MF | 20% | 16V |
| C4 | 1-130-482-00 | MYLAR | 0.0082MF | 5% | 50V |
| C5 | 1-163-189-00 | CERAMIC CHIP | 220PF | 10% | 50V |
| C6 | 1-124-438-00 | ELECT | 1MF | 20% | 50V |
| C7 | 1-124-464-11 | ELECT | 0.22MF | 20% | 50V |
| C8 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C9 | 1-126-281-11 | ELECT | 4.7MF | 20% | 16V |
| C10 | 1-163-053-00 | CERAMIC CHIP | 0.0033MF | 10% | 50V |
| C11 | 1-163-063-00 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C12 | 1-163-055-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C13 | 1-124-438-00 | ELECT | 1MF | 20% | 50V |
| C14 | 1-110-360-91 | MYLAR | 0.0056MF | 5% | 50V |
| C15 | 1-110-360-91 | MYLAR | 0.0056MF | 5% | 50V |
| C16 | 1-163-161-00 | CERAMIC CHIP | 15PF | 5% | 50V |
| C17 | 1-163-161-00 | CERAMIC CHIP | 15PF | 5% | 50V |
| C18 | 1-163-063-00 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C19 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C20 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C21 | 1-124-257-00 | ELECT | 2.2MF | 20% | 35V |
| C22 | 1-163-059-00 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C23 | 1-126-162-11 | ELECT | 3.3MF | 20% | 25V |
| C24 | 1-126-162-11 | ELECT | 3.3MF | 20% | 25V |
| C25 | 1-163-157-00 | FILM | 0.022MF | 5% | 50V |
| C26 | 1-163-059-00 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C27 | 1-124-242-00 | ELECT | 33MF | 20% | 16V |
| C28 | 1-163-063-00 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C29 | 1-163-063-00 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C30 | 1-163-053-00 | CERAMIC CHIP | 0.0033MF | 10% | 50V |
| C31 | 1-126-281-11 | ELECT | 4.7MF | 20% | 16V |
| C33 | 1-163-059-00 | CERAMIC MELF | 0.01MF | 30% | 16V |
| C101 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C102 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C103 | 1-126-154-11 | ELECT | 47MF | 20% | 6.3V |
| C104 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V |
| C105 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C106 | 1-126-159-11 | ELECT | 0.47MF | 20% | 50V |
| C107 | 1-126-176-11 | ELECT | 220MF | 20% | 10V |
| C108 | 1-130-479-00 | MYLAR | 0.0047MF | 5% | 50V |
| C109 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V |
| C110 | 1-136-167-00 | FILM | 0.15MF | 5% | 50V |
| C111 | 1-130-485-00 | MYLAR | 0.015MF | 5% | 50V |
| C112 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C113 | 1-136-175-00 | FILM | 0.068MF | 5% | 50V |
| C114 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C115 | 1-130-481-00 | MYLAR | 0.0068MF | 5% | 50V |
| C116 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V |
| C117 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C118 | 1-124-464-11 | ELECT | 0.22MF | 20% | 50V |
| C119 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C120 | 1-163-167-00 | CERAMIC CHIP | 27PF | 5% | 50V |
| C121 | 1-130-476-00 | MYLAR | 0.0027MF | 5% | 50V |
| C122 | 1-136-162-00 | FILM | 0.056MF | 5% | 50V |
| C123 | 1-136-162-00 | FILM | 0.056MF | 5% | 50V |
| C124 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C125 | 1-130-477-00 | MYLAR | 0.0033MF | 5% | 50V |
| C126 | 1-124-438-00 | ELECT | 1MF | 20% | 50V |
| C127 | 1-124-438-00 | ELECT | 1MF | 20% | 50V |
| C128 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C129 | 1-124-464-11 | ELECT | 0.22MF | 20% | 50V |
| C130 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C131 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C132 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C133 | 1-124-225-00 | ELECT | 100MF | 20% | 6.3V |
| C134 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C135 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C136 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C137 | 1-126-281-11 | ELECT | 4.7MF | 20% | 16V |
| C138 | 1-126-281-11 | ELECT | 4.7MF | 20% | 16V |
| C139 | 1-163-205-00 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C140 | 1-163-205-00 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C201 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C202 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C203 | 1-126-154-11 | ELECT | 47MF | 20% | 6.3V |
| C204 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V |
| C205 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C206 | 1-126-159-11 | ELECT | 0.47MF | 20% | 50V |

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| C207 | 1-126-176-11 | ELECT | 220MF | 20% | 10V |
| C208 | 1-130-479-00 | MYLAR | 0.0047MF | 5% | 50V |
| C209 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V |
| C210 | 1-136-167-00 | FILM | 0.15MF | 5% | 50V |
| C211 | 1-130-485-00 | MYLAR | 0.015MF | 5% | 50V |
| C212 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C213 | 1-136-175-00 | FILM | 0.068MF | 5% | 50V |
| C214 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C215 | 1-130-481-00 | MYLAR | 0.0068MF | 5% | 50V |
| C216 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V |
| C217 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C218 | 1-124-464-11 | ELECT | 0.22MF | 20% | 50V |
| C219 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C220 | 1-163-167-00 | CERAMIC CHIP | 27PF | 5% | 50V |
| C221 | 1-130-476-00 | MYLAR | 0.0027MF | 5% | 50V |
| C222 | 1-136-162-00 | FILM | 0.056MF | 5% | 50V |
| C223 | 1-136-162-00 | FILM | 0.056MF | 5% | 50V |
| C224 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C225 | 1-130-477-00 | MYLAR | 0.0033MF | 5% | 50V |
| C226 | 1-124-438-00 | ELECT | 1MF | 20% | 50V |
| C227 | 1-124-438-00 | ELECT | 1MF | 20% | 50V |
| C228 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C229 | 1-124-464-11 | ELECT | 0.22MF | 20% | 50V |
| C230 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C231 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C232 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C233 | 1-124-225-00 | ELECT | 100MF | 20% | 6.3V |
| C234 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C235 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C236 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C237 | 1-126-281-11 | ELECT | 4.7MF | 20% | 16V |
| C238 | 1-126-281-11 | ELECT | 4.7MF | 20% | 16V |
| C239 | 1-163-205-00 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C240 | 1-163-205-00 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C301 | 1-163-063-00 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C302 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C303 | 1-124-229-00 | ELECT | 33MF | 20% | 10V |
| C304 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C305 | 1-163-063-00 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C306 | 1-124-229-00 | ELECT | 33MF | 20% | 10V |
| C307 | 1-124-229-00 | ELECT | 33MF | 20% | 10V |
| C308 | 1-124-584-00 | ELECT | 100MF | 20% | 10V |
| C309 | 1-124-229-00 | ELECT | 33MF | 20% | 10V |
| C310 | 1-126-154-11 | ELECT | 47MF | 20% | 6.3V |
| C311 | 1-124-229-00 | ELECT | 33MF | 20% | 10V |
| C312 | 1-124-584-00 | ELECT | 100MF | 20% | 10V |
| C313 | 1-126-159-11 | ELECT | 0.47MF | 20% | 50V |
| C314 | 1-124-465-00 | ELECT | 0.47MF | 20% | 50V |
| C315 | 1-163-157-00 | FILM | 0.022MF | 5% | 50V |
| C316 | 1-124-589-11 | ELECT | 47MF | 20% | 10V |
| C317 | 1-163-205-00 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C318 | 1-136-156-00 | FILM | 0.018MF | 5% | 50V |
| C319 | 1-136-156-00 | FILM | 0.018MF | 5% | 50V |
| C320 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C321 | 1-163-063-00 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C322 | 1-124-589-11 | ELECT | 47MF | 20% | 10V |
| C323 | 1-163-169-00 | CERAMIC CHIP | 33PF | 5% | 50V |

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| C324 | 1-163-169-00 | CERAMIC CHIP | 33PF | 5% | 50V |
| C325 | 1-124-360-00 | ELECT | 1000MF | 20% | 16V |
| C326 | 1-124-242-00 | ELECT | 33MF | 20% | 16V |
| C328 | 1-124-438-00 | ELECT | 1MF | 20% | 50V |
| C329 | 1-124-438-00 | ELECT | 1MF | 20% | 50V |
| C330 | 1-124-229-00 | ELECT | 33MF | 20% | 10V |
| C331 | 1-124-229-00 | ELECT | 33MF | 20% | 10V |
| C332 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C333 | 1-124-438-00 | ELECT | 1MF | 20% | 50V |
| C334 | 1-163-059-00 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C335 | 1-124-229-00 | ELECT | 33MF | 20% | 10V |
| C336 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C337 | 1-124-584-00 | ELECT | 100MF | 20% | 10V |
| C338 | 1-126-154-11 | ELECT | 47MF | 20% | 6.3V |
| C339 | 1-124-229-00 | ELECT | 33MF | 20% | 10V |
| C340 | 1-163-213-00 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C341 | 1-163-063-00 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C342 | 1-163-063-00 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C343 | 1-163-063-00 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C501 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C502 | 1-126-162-11 | ELECT | 3.3MF | 20% | 25V |
| C503 | 1-124-463-00 | ELECT | 0.1MF | 20% | 50V |
| C504 | 1-124-229-00 | ELECT | 33MF | 20% | 10V |
| C505 | 1-130-497-00 | MYLAR | 0.15MF | 5% | 50V |
| C506 | 1-130-497-00 | MYLAR | 0.15MF | 5% | 50V |
| C551 | 1-126-176-11 | ELECT | 220MF | 20% | 10V |
| C552 | 1-124-343-00 | ELECT | 2200MF | 20% | 16V |
| C553 | 1-163-063-00 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C601 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C602 | 1-126-162-11 | ELECT | 3.3MF | 20% | 25V |
| C603 | 1-124-463-00 | ELECT | 0.1MF | 20% | 50V |
| C604 | 1-124-229-00 | ELECT | 33MF | 20% | 10V |
| C605 | 1-130-497-00 | MYLAR | 0.15MF | 5% | 50V |
| C606 | 1-130-497-00 | MYLAR | 0.15MF | 5% | 50V |
| C801 | 1-130-477-00 | FILM | 0.0033MF | 5% | 50V |
| C802 | 1-126-094-11 | ELECT | 4.7MF | 20% | 16V |
| C803 | 1-136-175-00 | FILM | 0.068MF | 5% | 50V |
| C804 | 1-136-175-00 | FILM | 0.068MF | 5% | 50V |
| C805 | 1-124-463-00 | ELECT | 0.1MF | 20% | 50V |
| C806 | 1-163-175-00 | CERAMIC CHIP | 56PF | 5% | 50V |
| C807 | 1-124-463-00 | ELECT | 0.1MF | 20% | 50V |
| C808 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C809 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C810 | 1-124-463-00 | ELECT | 0.1MF | 20% | 50V |
| C811 | 1-136-175-00 | FILM | 0.068MF | 5% | 50V |
| C812 | 1-136-175-00 | FILM | 0.068MF | 5% | 50V |
| C813 | 1-163-157-00 | FILM | 0.022MF | 5% | 50V |
| C814 | 1-163-157-00 | FILM | 0.022MF | 5% | 50V |
| C815 | 1-124-229-00 | ELECT | 33MF | 20% | 10V |

| | | |
|---|---|---|
| CNJ11 | *1-566-007-11 | PIN, CONNECTOR (PC BOARD) 10P |
| CNJ14 | 1-565-038-11 | CONNECTOR, F.P.C 5P |
| CNP12 | *1-566-003-11 | PIN, CONNECTOR (PC BOARD) 6P |
| CNP13 | *1-506-998-11 | PIN, CONNECTOR (PC BOARD) 2P |
| CNP15 | 1-506-484-11 | PIN, CONNECTOR 5P |
| CNP901 | 1-506-467-11 | PIN, CONNECTOR 2P |
| CNP902 | *1-506-984-11 | PIN, CONNECTOR (PC BOARD) 2P |
| CNP904 | *1-566-011-11 | PIN, CONNECTOR (PC BOARD) 14P |

| Ref.No. | Part No. | Description |
|---|---|---|
| CNP905 | 1-506-482-11 | PIN, CONNECTOR 3P |
| CNP906 | 1-506-468-11 | PIN, CONNECTOR 3P |
| CNP907 | 1-506-468-11 | PIN, CONNECTOR 3P |
| CNP908 | 1-506-473-11 | PIN, CONNECTOR 8P |
| CNP909*1 | -566-005-11 | PIN, CONNECTOR (PC BOARD) 8P |
| CNP910*1 | -506-985-11 | PIN, CONNECTOR (PC BOARD) 3P |
| CNP916 | 1-506-467-11 | PIN, CONNECTOR 2P |
| CNP917*1 | -506-988-11 | PIN, CONNECTOR (PC BOARD) 6P |
| CNP918*1 | -564-214-11 | PIN, CONNECTOR 3P |
| CNP919*1 | -564-519-11 | PLUG, CONNECTOR 4P |
| D1 | 8-719-911-19 | DIODE 1SS119 |
| D2 | 8-719-911-19 | DIODE 1SS119 |
| D3 | 8-719-110-13 | DIODE RD9.1ES-B2 |
| D4 | 8-719-911-19 | DIODE 1SS119 |
| D101 | 8-719-109-74 | DIODE RD4.3ES-B1 |
| D201 | 8-719-109-74 | DIODE RD4.3ESB1 |
| D301 | 8-719-109-72 | DIODE RD3.9ES-B2 |
| D302 | 8-719-400-18 | DIODE MA152WK |
| D303 | 8-719-101-61 | DIODE RD6.2EL2 |
| D304 | 8-719-911-19 | DIODE 1SS119 |
| D305 | 8-719-911-19 | DIODE 1SS119 |
| D306 | 8-719-911-19 | DIODE 1SS119 |
| D307 | 8-719-911-19 | DIODE 1SS119 |
| D308 | 8-719-911-19 | DIODE 1SS119 |
| D309 | 8-719-110-22 | DIODE RD11ES-B2 |
| D310 | 8-719-911-19 | DIODE 1SS119 |
| D312 | 8-719-911-19 | DIODE 1SS119 |
| D314 | 8-719-911-19 | DIODE 1SS119 |
| D315 | 8-719-911-19 | DIODE 1SS119 |
| D316 | 8-719-101-61 | DIODE RD6.2EL2 |
| D317 | 8-719-110-13 | DIODE RD9.1ES-B2 |
| D318 | 8-719-911-89 | DIODE RD5.6ES-B2 |
| D319 | 8-719-911-19 | DIODE 1SS119 |
| D320 | 8-719-109-89 | DIODE RD5.6ES-B2 |
| D321 | 8-719-109-89 | DIODE RD5.6ES-B2 |
| D322 | 8-719-911-19 | DIODE 1SS119 |
| D323 | 8-719-200-02 | DIODE 10E-2 |
| D324 | 8-719-110-13 | DIODE RD9.1ES-B2 |
| D325 | 8-719-110-17 | DIODE RD10ES-B2 |
| D326 | 8-719-109-89 | DIODE RD5.6ES-B2 |
| D327 | 8-719-109-89 | DIODE RD5.6ES-B2 |
| D328 | 8-719-109-81 | DIODE RD4.7ES-B2 |
| D329 | 8-719-109-81 | DIODE RD4.7ES-B2 |
| D331 | 8-719-109-89 | DIODE RD5.6ES-B2 |
| D551 | 8-719-945-59 | DIODE DSA3A4 |
| D701 | 8-719-404-22 | DIODE LN1451C |
| D702 | 8-719-404-22 | DIODE LN1451C |
| D703 | 8-719-404-22 | DIODE LN1451C |
| D704 | 8-719-404-22 | DIODE LN1451C |
| D705 | 8-719-404-22 | DIODE LN1451C |
| D706 | 8-719-404-22 | DIODE LN1451C |
| D707 | 8-719-404-22 | DIODE LN1451C |
| D708 | 8-719-404-22 | DIODE LN1451C |
| D709 | 8-719-404-22 | DIODE LN1451C |
| D710 | 8-719-404-22 | DIODE LN1451C |
| D711 | 8-719-404-22 | DIODE LN1451C |
| D712 | 8-719-404-22 | DIODE LN1451C |
| D713 | 8-719-404-22 | DIODE LN1451C |
| D714 | 8-719-404-22 | DIODE LN1451C |
| D715 | 8-719-404-22 | DIODE LN1451C |
| D716 | 8-719-404-22 | DIODE LN1451C |
| D717 | 8-719-404-22 | DIODE LN1451C |
| D718 | 8-719-404-22 | DIODE LN1451C |
| D719 | 8-719-404-22 | DIODE LN1451C |
| D720 | 8-719-404-22 | DIODE LN1451C |
| D721 | 8-719-404-22 | DIODE LN1451C |
| D722 | 8-719-404-22 | DIODE LN1451C |
| D723 | 8-719-404-22 | DIODE LN1451C |
| D724 | 8-719-404-22 | DIODE LN1451C |
| D725 | 8-719-404-22 | DIODE LN1451C |
| D851 | 8-719-911-19 | DIODE 1SS119 |
| FE1 | 1-465-020-11 | TUNER UNIT (FM.AM) |
| HP901 | 1-543-506-11 | HEAD, MAGNETIC (PLAYBACK) |
| IC1 | 1-808-515-11 | IC NMX3S900 |
| IC2 | 8-759-821-41 | IC LM7000N |
| IC101 | 8-759-206-48 | IC TA7705F |
| IC102 | 8-759-106-22 | IC UPD4052BG |
| IC103 | 8-752-031-27 | IC CXA1097Q |
| IC104 | 8-759-820-15 | IC LC7537AN |
| IC105 | 8-759-109-70 | IC UPC4560G2 |
| IC106 | 8-759-109-70 | IC UPC4560G2 |
| IC107 | 8-759-109-70 | IC UPC4560G2 |
| IC108 | 8-759-109-70 | IC UPC4560G2 |
| IC109 | 8-759-604-56 | IC M5228FP |
| IC110 | 8-759-631-00 | IC M5280FP |
| IC111 | 8-759-106-23 | IC UPD4066BG |
| IC112 | 8-759-631-00 | IC M5280FP |
| IC301 | 8-759-144-10 | IC UPD75108G-697-1B |
| IC302 | 8-759-631-01 | IC M54644BL |
| IC303 | 8-759-200-84 | IC TC4081BF |
| IC304 | 8-759-820-87 | IC LA2000 |
| IC501 | 8-759-230-25 | IC TA8210H |
| IC801 | 8-759-971-69 | IC TDA1579 |
| IC802 | 8-759-945-58 | IC RC4558P |
| L1 | 1-410-513-11 | INDUCTOR 22UH |
| L101 | 1-235-186-00 | ENCAPSULATED COMPONENT |
| L201 | 1-235-186-00 | ENCAPSULATED COMPONENT |
| L301 | 1-410-513-11 | INDUCTOR 22UH |
| L302 | 1-408-111-00 | INDUCTOR 3.3UH |
| L303 | 1-410-513-11 | INDUCTOR 22UH |
| L551 | 1-421-369-00 | COIL, CHOKE |
| L801 | 1-424-036-11 | COIL (FILTER) |
| L801 | 1-424-036-11 | COIL (FILTER) |
| M901 | A-3239-951-A | MOTOR SUB ASSY, CAPSTAN |
| M902 | A-3239-956-B | MOTOR SUB ASSY, L |
| PH11 | 8-719-939-11 | GP2S09-B |
| PH12 | 8-719-939-11 | GP2S09-B |
| PM901 | 1-454-461-11 | SOLENOID, PLUNGER |
| Q1 | 8-729-100-66 | TRANSISTOR 2SC1623 |
| Q2 | 8-729-100-66 | TRANSISTOR 2SC1623 |
| Q3 | 8-729-100-66 | TRANSISTOR 2SC1623 |

| Ref.No. | Part No. | Description |
|---|---|---|
| Q4 | 8-729-100-66 | TRANSISTOR 2SC1623 |
| Q5 | 8-729-100-66 | TRANSISTOR 2SC1623 |
| Q6 | 8-729-901-01 | TRANSISTOR DTC144EK |
| Q7 | 8-729-901-04 | TRANSISTOR DTA114EK |
| Q8 | 8-729-820-68 | TRANSISTOR 2SD1802FAS |
| Q9 | 8-729-106-60 | TRANSISTOR 2SB1115A |
| Q10 | 8-729-106-60 | TRANSISTOR 2SB1115A |
| Q11 | 8-729-900-53 | TRANSISTOR DTC114EK |
| Q13 | 8-729-901-01 | TRANSISTOR DTC144EK |
| Q102 | 8-729-920-21 | TRANSISTOR DTC314TKH04 |
| Q202 | 8-729-920-21 | TRANSISTOR DTC314TKH04 |
| Q301 | 8-729-100-66 | TRANSISTOR 2SC1623 |
| Q302 | 8-729-100-66 | TRANSISTOR 2SC1623 |
| Q303 | 8-729-100-66 | TRANSISTOR 2SC1623 |
| Q304 | 8-729-900-53 | TRANSISTOR DTC114EK |
| Q305 | 8-729-106-60 | TRANSISTOR 2SB1115A |
| Q306 | 8-729-901-01 | TRANSISTOR DTC144EK |
| Q307 | 8-729-901-04 | TRANSISTOR DTA114EK |
| Q308 | 8-729-106-68 | TRANSISTOR 2SD1615A-GP |
| Q309 | 8-729-900-53 | TRANSISTOR DTC114EK |
| Q310 | 8-729-100-66 | TRANSISTOR 2SC1623 |
| Q311 | 8-729-900-53 | TRANSISTOR DTC114EK |
| Q312 | 8-729-100-66 | TRANSISTOR 2SC1623 |
| Q313 | 8-729-100-66 | TRANSISTOR 2SC1623 |
| Q314 | 8-729-820-68 | TRANSISTOR 2SD1802FAS |
| Q315 | 8-729-900-53 | TRANSISTOR DTC114EK |
| Q316 | 8-729-900-53 | TRANSISTOR DTC114EK |
| Q317 | 8-729-106-60 | TRANSISTOR 2SB1115A |
| Q318 | 8-729-100-66 | TRANSISTOR 2SC1623 |
| Q319 | 8-729-100-66 | TRANSISTOR 2SC1623 |
| Q320 | 8-729-820-68 | TRANSISTOR 2SD1802FAS |
| Q321 | 8-729-106-68 | TRANSISTOR 2SD1615A-GP |
| Q322 | 8-729-820-68 | TRANSISTOR 2SD1802FAS |
| Q323 | 8-729-820-68 | TRANSISTOR 2SD1802FAS |
| Q324 | 8-729-900-53 | TRANSISTOR DTC114EK |
| Q325 | 8-729-900-53 | TRANSISTOR DTC114EK |
| Q326 | 8-729-106-68 | TRANSISTOR 2SD1615A-GP |
| Q327 | 8-729-901-01 | TRANSISTOR DTC144EK |
| Q328 | 8-729-901-01 | TRANSISTOR DTC144EK |
| Q501 | 8-729-920-21 | TRANSISTOR DTC314TKH04 |
| Q601 | 8-729-920-21 | TRANSISTOR DTC314TKH04 |
| R1 | 1-216-198-00 | METAL GLAZE 1K 5% 1/8W |
| R2 | 1-216-202-00 | METAL GLAZE 1.5K 5% 1/8W |
| R3 | 1-216-198-00 | METAL GLAZE 1K 5% 1/8W |
| R4 | 1-216-229-00 | METAL GLAZE 20K 5% 1/8W |
| R5 | 1-216-214-00 | METAL GLAZE 4.7K 5% 1/8W |
| R6 | 1-216-150-00 | METAL GLAZE 10 5% 1/8W |
| R7 | 1-216-208-00 | METAL GLAZE 2.7K 5% 1/8W |
| R8 | 1-216-216-00 | METAL GLAZE 5.6K 5% 1/8W |
| R9 | 1-216-216-00 | METAL GLAZE 5.6K 5% 1/8W |
| R10 | 1-249-437-11 | CARBON 47K 5% 1/4W |
| R11 | 1-216-212-00 | METAL GLAZE 3.9K 5% 1/8W |
| R12 | 1-216-218-00 | METAL GLAZE 6.8K 5% 1/8W |
| R13 | 1-216-218-00 | METAL GLAZE 6.8K 5% 1/8W |
| R14 | 1-216-232-00 | METAL GLAZE 27K 5% 1/8W |
| R15 | 1-216-232-00 | METAL GLAZE 27K 5% 1/8W |

| Ref.No. | Part No. | Description |
|---|---|---|
| R16 | 1-216-239-00 | METAL GLAZE 51K 5% 1/8W |
| R17 | 1-216-239-00 | METAL GLAZE 51K 5% 1/8W |
| R18 | 1-216-270-00 | METAL GLAZE 1M 5% 1/8W |
| R19 | 1-216-214-00 | METAL GLAZE 4.7K 5% 1/8W |
| R20 | 1-216-202-00 | METAL GLAZE 1.5K 5% 1/8W |
| R21 | 1-216-198-00 | METAL GLAZE 1K 5% 1/8W |
| R22 | 1-216-210-00 | METAL GLAZE 3.3K 5% 1/8W |
| R23 | 1-216-222-00 | METAL GLAZE 10K 5% 1/8W |
| R24 | 1-216-198-00 | METAL GLAZE 1K 5% 1/8W |
| R25 | 1-216-212-00 | METAL GLAZE 3.9K 5% 1/8W |
| R26 | 1-216-198-00 | METAL GLAZE 1K 5% 1/8W |
| R27 | 1-216-210-00 | METAL GLAZE 3.3K 5% 1/8W |
| R28 | 1-216-214-00 | METAL GLAZE 4.7K 5% 1/8W |
| R29 | 1-216-208-00 | METAL GLAZE 2.7K 5% 1/8W |
| R30 | 1-216-198-00 | METAL GLAZE 1K 5% 1/8W |
| R31 | 1-216-214-00 | METAL GLAZE 4.7K 5% 1/8W |
| R32 | 1-216-214-00 | METAL GLAZE 4.7K 5% 1/8W |
| R33 | 1-216-214-00 | METAL GLAZE 4.7K 5% 1/8W |
| R34 | 1-216-216-00 | METAL GLAZE 5.6K 5% 1/8W |
| R35 | 1-216-232-00 | METAL GLAZE 27K 5% 1/8W |
| R36 | 1-216-234-00 | METAL GLAZE 33K 5% 1/8W |
| R37 | 1-216-222-00 | METAL GLAZE 10K 5% 1/8W |
| R38 | 1-216-246-00 | METAL GLAZE 100K 5% 1/8W |
| R39 | 1-216-240-00 | METAL GLAZE 56K 5% 1/8W |
| R101 | 1-216-184-00 | METAL GLAZE 270 5% 1/8W |
| R102 | 1-216-258-00 | METAL GLAZE 330K 5% 1/8W |
| R103 | 1-216-226-00 | METAL GLAZE 15K 5% 1/8W |
| R104 | 1-216-226-00 | METAL GLAZE 15K 5% 1/8W |
| R107 | 1-216-222-00 | METAL GLAZE 10K 5% 1/8W |
| R109 | 1-215-433-00 | METAL 3.3K 1% 1/6W |
| R110 | 1-215-433-00 | METAL 3.3K 1% 1/6W |
| R111 | 1-216-189-00 | METAL GLAZE 430 5% 1/8W |
| R112 | 1-216-218-00 | METAL GLAZE 6.8K 5% 1/8W |
| R114 | 1-216-198-00 | METAL GLAZE 1K 5% 1/8W |
| R115 | 1-216-250-00 | METAL GLAZE 150K 5% 1/8W |
| R116 | 1-216-238-00 | METAL GLAZE 47K 5% 1/8W |
| R117 | 1-216-270-00 | METAL GLAZE 1M 5% 1/8W |
| R118 | 1-216-222-00 | METAL GLAZE 10K 5% 1/8W |
| R119 | 1-216-226-00 | METAL GLAZE 15K 5% 1/8W |
| R120 | 1-216-210-00 | METAL GLAZE 3.3K 5% 1/8W |
| R121 | 1-216-270-00 | METAL GLAZE 1M 5% 1/8W |
| R122 | 1-216-270-00 | METAL GLAZE 1M 5% 1/8W |
| R123 | 1-216-270-00 | METAL GLAZE 1M 5% 1/8W |
| R124 | 1-216-198-00 | METAL GLAZE 1K 5% 1/8W |
| R125 | 1-216-248-00 | METAL GLAZE 120K 5% 1/8W |
| R126 | 1-216-246-00 | METAL GLAZE 100K 5% 1/8W |
| R127 | 1-216-248-00 | METAL GLAZE 120K 5% 1/8W |
| R128 | 1-216-246-00 | METAL GLAZE 100K 5% 1/8W |
| R129 | 1-216-230-00 | METAL GLAZE 22K 5% 1/8W |
| R130 | 1-216-226-00 | METAL GLAZE 15K 5% 1/8W |
| R131 | 1-216-230-00 | METAL GLAZE 22K 5% 1/8W |
| R132 | 1-216-226-00 | METAL GLAZE 15K 5% 1/8W |
| R133 | 1-216-206-00 | METAL GLAZE 2.2K 5% 1/8W |
| R134 | 1-216-222-00 | METAL GLAZE 10K 5% 1/8W |
| R135 | 1-216-230-00 | METAL GLAZE 22K 5% 1/8W |
| R136 | 1-216-226-00 | METAL GLAZE 15K 5% 1/8W |
| R137 | 1-216-206-00 | METAL GLAZE 2.2K 5% 1/8W |

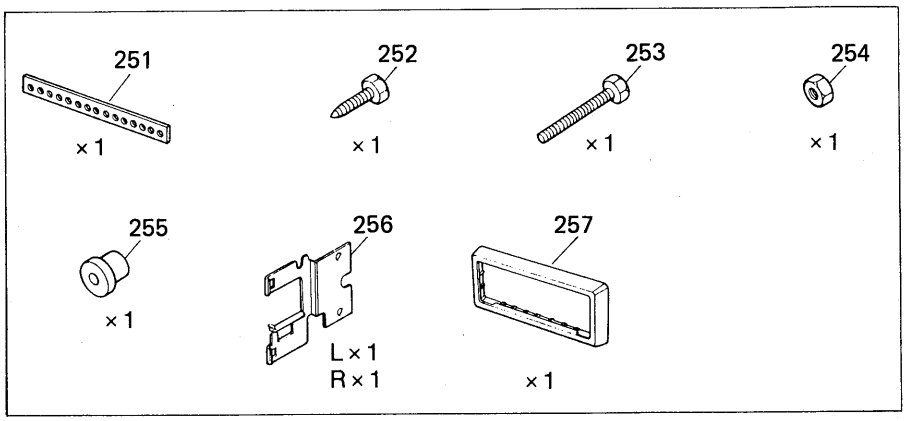
| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| R138 | 1-216-230-00 | METAL GLAZE | 22K | 5% | 1/8W |
| R139 | 1-216-194-00 | METAL GLAZE | 680 | 5% | 1/8W |
| R140 | 1-216-200-00 | METAL GLAZE | 1.2K | 5% | 1/8W |
| R201 | 1-216-184-00 | METAL GLAZE | 270 | 5% | 1/8W |
| R202 | 1-216-258-00 | METAL GLAZE | 330K | 5% | 1/8W |
| R203 | 1-216-226-00 | METAL GLAZE | 15K | 5% | 1/8W |
| R204 | 1-216-226-00 | METAL GLAZE | 15K | 5% | 1/8W |
| R207 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R209 | 1-215-433-00 | METAL | 3.3K | 1% | 1/6W |
| R210 | 1-215-433-00 | METAL | 3.3K | 1% | 1/6W |
| R211 | 1-216-189-00 | METAL GLAZE | 430 | 5% | 1/8W |
| R212 | 1-216-218-00 | METAL GLAZE | 6.8K | 5% | 1/8W |
| R214 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W |
| R215 | 1-216-250-00 | METAL GLAZE | 150K | 5% | 1/8W |
| R216 | 1-216-238-00 | METAL GLAZE | 47K | 5% | 1/8W |
| R217 | 1-216-270-00 | METAL GLAZE | 1M | 5% | 1/8W |
| R218 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R219 | 1-216-226-00 | METAL GLAZE | 15K | 5% | 1/8W |
| R220 | 1-216-210-00 | METAL GLAZE | 3.3K | 5% | 1/8W |
| R221 | 1-216-270-00 | METAL GLAZE | 1M | 5% | 1/8W |
| R222 | 1-216-270-00 | METAL GLAZE | 1M | 5% | 1/8W |
| R223 | 1-216-270-00 | METAL GLAZE | 1M | 5% | 1/8W |
| R224 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W |
| R225 | 1-216-248-00 | METAL GLAZE | 120K | 5% | 1/8W |
| R226 | 1-216-246-00 | METAL GLAZE | 100K | 5% | 1/8W |
| R227 | 1-216-248-00 | METAL GLAZE | 120K | 5% | 1/8W |
| R228 | 1-216-246-00 | METAL GLAZE | 100K | 5% | 1/8W |
| R229 | 1-216-230-00 | METAL GLAZE | 22K | 5% | 1/8W |
| R230 | 1-216-226-00 | METAL GLAZE | 15K | 5% | 1/8W |
| R231 | 1-216-230-00 | METAL GLAZE | 22K | 5% | 1/8W |
| R232 | 1-216-226-00 | METAL GLAZE | 15K | 5% | 1/8W |
| R233 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W |
| R234 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R235 | 1-216-230-00 | METAL GLAZE | 22K | 5% | 1/8W |
| R236 | 1-216-226-00 | METAL GLAZE | 15K | 5% | 1/8W |
| R237 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W |
| R238 | 1-216-230-00 | METAL GLAZE | 22K | 5% | 1/8W |
| R239 | 1-216-194-00 | METAL GLAZE | 680 | 5% | 1/8W |
| R240 | 1-216-200-00 | METAL GLAZE | 1.2K | 5% | 1/8W |
| R301 | 1-216-238-00 | METAL GLAZE | 47K | 5% | 1/8W |
| R302 | 1-216-238-00 | METAL GLAZE | 47K | 5% | 1/8W |
| R303 | 1-216-238-00 | METAL GLAZE | 47K | 5% | 1/8W |
| R304 | 1-216-246-00 | METAL GLAZE | 100K | 5% | 1/8W |
| R305 | 1-216-246-00 | METAL GLAZE | 100K | 5% | 1/8W |
| R306 | 1-216-246-00 | METAL GLAZE | 100K | 5% | 1/8W |
| R307 | 1-215-469-00 | METAL | 100K | 1% | 1/6W |
| R308 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W |
| R309 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W |
| R310 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W |
| R311 | 1-216-174-00 | METAL GLAZE | 100 | 5% | 1/8W |
| R312 | 1-216-246-00 | METAL GLAZE | 100K | 5% | 1/8W |
| R313 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R314 | 1-216-190-00 | METAL GLAZE | 470 | 5% | 1/8W |
| R315 | 1-216-246-00 | METAL GLAZE | 100K | 5% | 1/8W |
| R316 | 1-216-246-00 | METAL GLAZE | 100K | 5% | 1/8W |
| R317 | 1-216-150-00 | METAL GLAZE | 10 | 5% | 1/8W |
| R318 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| R319 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R320 | 1-216-218-00 | METAL GLAZE | 6.8K | 5% | 1/8W |
| R321 | 1-216-218-00 | METAL GLAZE | 6.8K | 5% | 1/8W |
| R322 | 1-216-250-00 | METAL GLAZE | 150K | 5% | 1/8W |
| R323 | 1-216-174-00 | METAL GLAZE | 100 | 5% | 1/8W |
| R324 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W |
| R325 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W |
| R326 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R327 | 1-216-150-00 | METAL GLAZE | 10 | 5% | 1/8W |
| R328 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W |
| R329 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R330 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R331 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W |
| R332 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R333 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R334 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R335 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R336 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R337 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R338 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R339 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R340 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R341 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R342 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R343 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R344 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R345 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R346 | 1-216-214-00 | METAL GLAZE | 4.7K | 5% | 1/8W |
| R347 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W |
| R348 | 1-216-214-00 | METAL GLAZE | 4.7K | 5% | 1/8W |
| R349 | 1-216-186-00 | METAL GLAZE | 330 | 5% | 1/8W |
| R350 | 1-216-176-00 | METAL GLAZE | 120 | 5% | 1/8W |
| R351 | 1-216-164-00 | METAL GLAZE | 39 | 5% | 1/8W |
| R352 | 1-216-236-00 | METAL GLAZE | 39K | 5% | 1/8W |
| R353 | 1-216-236-00 | METAL GLAZE | 39K | 5% | 1/8W |
| R354 | 1-216-224-00 | METAL GLAZE | 12K | 5% | 1/8W |
| R356 | 1-249-451-11 | CARBON | 2.2 | 5% | 1/4W |
| R357 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R358 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W |
| R359 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R360 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R361 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R362 | 1-216-200-00 | METAL GLAZE | 1.2K | 5% | 1/8W |
| R363 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R364 | 1-216-196-00 | METAL GLAZE | 820 | 5% | 1/8W |
| R365 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W |
| R367 | 1-216-196-00 | METAL GLAZE | 820 | 5% | 1/8W |
| R368 | 1-216-196-00 | METAL GLAZE | 820 | 5% | 1/8W |
| R369 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W |
| R370 | 1-216-210-00 | METAL GLAZE | 3.3K | 5% | 1/8W |
| R371 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R372 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R373 | 1-216-212-00 | METAL GLAZE | 3.9K | 5% | 1/8W |
| R374 | 1-216-210-00 | METAL GLAZE | 3.3K | 5% | 1/8W |
| R375 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R376 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W |
| R377 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W |

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| R378 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W |
| R379 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W |
| R380 | 1-216-190-00 | METAL GLAZE | 470 | 5% | 1/8W |
| R381 | 1-216-182-00 | METAL GLAZE | 220 | 5% | 1/8W |
| R382 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R384 | 1-216-246-00 | METAL GLAZE | 100K | 5% | 1/8W |
| R385 | 1-216-254-00 | METAL GLAZE | 220K | 5% | 1/8W |
| R386 | 1-216-246-00 | METAL GLAZE | 100K | 5% | 1/8W |
| R387 | 1-216-230-00 | METAL GLAZE | 22K | 5% | 1/8W |
| R388 | 1-216-240-00 | METAL GLAZE | 56K | 5% | 1/8W |
| R389 | 1-216-254-00 | METAL GLAZE | 220K | 5% | 1/8W |
| R390 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R391 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R392 | 1-216-262-00 | METAL GLAZE | 470K | 5% | 1/8W |
| R393 | 1-216-190-00 | METAL GLAZE | 470 | 5% | 1/8W |
| R394 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R395 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R396 | 1-216-202-00 | METAL GLAZE | 1.5K | 5% | 1/8W |
| R397 | 1-216-186-00 | METAL GLAZE | 330 | 5% | 1/8W |
| R399 | 1-216-190-00 | METAL GLAZE | 470 | 5% | 1/8W |
| R401 | 1-216-262-00 | METAL GLAZE | 470K | 5% | 1/8W |
| R402 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R403 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R404 | 1-216-202-00 | METAL GLAZE | 1.5K | 5% | 1/8W |
| R501 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W |
| R502 | 1-216-230-00 | METAL GLAZE | 22K | 5% | 1/8W |
| R503 | 1-216-220-00 | METAL GLAZE | 8.2K | 5% | 1/8W |
| R504 | 1-216-210-00 | METAL GLAZE | 3.3K | 5% | 1/8W |
| R505 | 1-216-264-00 | METAL GLAZE | 560K | 5% | 1/8W |
| R506 | 1-216-190-00 | METAL GLAZE | 470 | 5% | 1/8W |
| R507 | 1-216-134-00 | METAL GLAZE | 2.2 | 5% | 1/8W |
| R508 | 1-216-134-00 | METAL GLAZE | 2.2 | 5% | 1/8W |
| R551 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R552 | 1-216-246-00 | METAL GLAZE | 100K | 5% | 1/8W |
| R601 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W |
| R602 | 1-216-230-00 | METAL GLAZE | 22K | 5% | 1/8W |
| R603 | 1-216-220-00 | METAL GLAZE | 8.2K | 5% | 1/8W |
| R604 | 1-216-210-00 | METAL GLAZE | 3.3K | 5% | 1/8W |
| R605 | 1-216-264-00 | METAL GLAZE | 560K | 5% | 1/8W |
| R606 | 1-216-190-00 | METAL GLAZE | 470 | 5% | 1/8W |
| R607 | 1-216-134-00 | METAL GLAZE | 2.2 | 5% | 1/8W |
| R608 | 1-216-134-00 | METAL GLAZE | 2.2 | 5% | 1/8W |
| R701 | 1-216-178-00 | METAL GLAZE | 150 | 5% | 1/8W |
| R702 | 1-216-178-00 | METAL GLAZE | 150 | 5% | 1/8W |
| R703 | 1-216-178-00 | METAL GLAZE | 150 | 5% | 1/8W |
| R704 | 1-216-178-00 | METAL GLAZE | 150 | 5% | 1/8W |
| R705 | 1-216-178-00 | METAL GLAZE | 150 | 5% | 1/8W |
| R706 | 1-216-178-00 | METAL GLAZE | 150 | 5% | 1/8W |
| R707 | 1-216-178-00 | METAL GLAZE | 150 | 5% | 1/8W |
| R708 | 1-216-186-00 | METAL GLAZE | 330 | 5% | 1/8W |
| R709 | 1-216-186-00 | METAL GLAZE | 330 | 5% | 1/8W |
| R801 | 1-216-238-00 | METAL GLAZE | 47K | 5% | 1/8W |
| R802 | 1-216-242-00 | METAL GLAZE | 68K | 5% | 1/8W |
| R803 | 1-216-214-00 | METAL GLAZE | 4.7K | 5% | 1/8W |
| R804 | 1-216-246-00 | METAL GLAZE | 100K | 5% | 1/8W |
| R805 | 1-216-190-00 | METAL GLAZE | 470 | 5% | 1/8W |
| R806 | 1-216-266-00 | METAL GLAZE | 680K | 5% | 1/8W |

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| R807 | 1-216-254-00 | METAL GLAZE | 220K | 5% | 1/8W |
| R808 | 1-216-216-00 | METAL GLAZE | 5.6K | 5% | 1/8W |
| R809 | 1-216-210-00 | METAL GLAZE | 3.3K | 5% | 1/8W |
| R810 | 1-216-216-00 | METAL GLAZE | 5.6K | 5% | 1/8W |
| R811 | 1-216-210-00 | METAL GLAZE | 3.3K | 5% | 1/8W |
| R812 | 1-216-265-00 | METAL GLAZE | 620K | 5% | 1/8W |
| R813 | 1-216-238-00 | METAL GLAZE | 47K | 5% | 1/8W |
| R814 | 1-216-234-00 | METAL GLAZE | 33K | 5% | 1/8W |
| R815 | 1-216-224-00 | METAL GLAZE | 12K | 5% | 1/8W |
| R816 | 1-216-255-00 | METAL GLAZE | 240K | 5% | 1/8W |
| R817 | 1-216-244-00 | METAL GLAZE | 82K | 5% | 1/8W |
| R818 | 1-216-238-00 | METAL GLAZE | 47K | 5% | 1/8W |
| R819 | 1-216-190-00 | METAL GLAZE | 470 | 5% | 1/8W |
| R820 | 1-216-238-00 | METAL GLAZE | 47K | 5% | 1/8W |
| R821 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R822 | 1-216-224-00 | METAL GLAZE | 12K | 5% | 1/8W |
| R851 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W |
| RV1 | 1-228-993-00 | RES, ADJ, CARBON 4.7K | | | |
| RV101 | 1-226-773-11 | RES, ADJ, METAL GLAZE 22K | | | |
| RV102 | 1-226-773-11 | RES, ADJ, METAL GLAZE 22K | | | |
| RV201 | 1-226-773-11 | RES, ADJ, METAL GLAZE 22K | | | |
| RV202 | 1-226-773-11 | RES, ADJ, METAL GLAZE 22K | | | |
| RV801 | 1-226-769-00 | RES, ADJ, METAL GLAZE 100 | | | |
| S11 | 1-570-953-11 | SWITCH, PUSH (1 KEY)(TAPE-IN) | | | |
| S12 | 1-570-953-11 | SWITCH, PUSH (1 KEY)(N/R) | | | |
| S901 | 1-570-771-11 | SWITCH (POWER) | | | |
| SW701 | 1-554-813-41 | SWITCH, KEY BOARD (POWER) | | | |
| SW702 | 1-554-813-41 | SWITCH, KEY BOARD (LOUD) | | | |
| SW703 | 1-554-813-41 | SWITCH, KEY BOARD (SELECT) | | | |
| SW704 | 1-554-813-41 | SWITCH, KEY BOARD (MUTE) | | | |
| SW705 | 1-554-813-41 | SWITCH, KEY BOARD (LEVEL -) | | | |
| SW706 | 1-554-813-41 | SWITCH, KEY BOARD (LEVEL +) | | | |
| SW707 | 1-554-813-41 | SWITCH, KEY BOARD (4/METAL) | | | |
| SW708 | 1-554-813-41 | SWITCH, KEY BOARD (1/INTRO) | | | |
| SW709 | 1-554-813-41 | SWITCH, KEY BOARD (2/REPEAT) | | | |
| SW710 | 1-554-813-41 | SWITCH, KEY BOARD (5/DOLBY) | | | |
| SW711 | 1-554-813-41 | SWITCH, KEY BOARD (3/BL.SKIP) | | | |
| SW712 | 1-554-813-41 | SWITCH, KEY BOARD (6) | | | |
| SW713 | 1-554-813-41 | SWITCH, KEY BOARD (AMS/SEEK -) | | | |
| SW714 | 1-554-813-41 | SWITCH, KEY BOARD (MANUAL -) | | | |
| SW715 | 1-554-813-41 | SWITCH, KEY BOARD (DSPL) | | | |
| SW716 | 1-554-813-41 | SWITCH, KEY BOARD (RESET) | | | |
| SW717 | 1-554-813-41 | SWITCH, KEY BOARD (LOCAL/MONO) | | | |
| SW718 | 1-554-813-41 | SWITCH, KEY BOARD (A.MEN/M.SCAN) | | | |
| SW719 | 1-554-813-41 | SWITCH, KEY BOARD (AMS/SEEK +) | | | |
| SW720 | 1-554-813-41 | SWITCH, KEY BOARD (MANUAL +) | | | |
| SW721 | 1-554-813-41 | SWITCH, KEY BOARD (EJECT) | | | |
| SW722 | 1-554-813-41 | SWITCH, KEY BOARD (PLAY/DIR) | | | |
| SW723 | 1-554-813-41 | SWITCH, KEY BOARD (FM/AM) | | | |
| SW724 | 1-554-813-41 | SWITCH, KEY BOARD (SDK) | | | |
| X1 | 1-567-250-11 | OSCILLATOR, CERAMIC | | | |
| X2 | 1-567-848-11 | VIBRATOR, CRYSTAL (7.2MHz) | | | |
| X301 | 1-567-170-00 | OSCILLATOR, CERAMIC (4.19MHz) | | | |

## MOUNTING HARDWARE




MOUNTING HARDWARE

| No. | Part No. | Description |
|---|---|---|
| 251 | 3-310-655-01 | SUPPORT (ND), FITTING |
| 252 | 3-302-126-01 | SCREW, TAPPING (DIA. 5X20) |
| 253 | 7-682-583-04 | SCREW +P 5X40 |
| 254 | 7-684-025-04 | N 5, TYPE 2 |
| 255 | 3-349-410-01 | BUSHING |
| 256 | *3-349-456-01 | BRACKET (FIX, LEFT) |
| 256 | *3-349-457-01 | BRACKET (FIX, RIGHT) |
| 257 | *3-349-458-01 | FRAME, ORNAMENTAL |

ACCESSORY & PACKING MATERIAL

| | |
|---|---|
| 3-336-617-01 | BAG, PROTECTION |
| *3-349-488-01 | CUSHION (UPPER) |
| *3-349-489-01 | CUSHION (LOWER) |
| *3-357-049-01 | LABEL, MODEL NUMBER |
| *3-357-052-01 | INDIVIDUAL CARTON |
| 3-751-475-11 | MANUAL, INSTRUCTION |
| 3-751-476-11 | MANUAL, INSTRUCTION |

9-955-672-11

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Mobile Electronics Group



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